

Service  
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**14PV120/07**  
**14PV125/01/07/39/58**  
**14PV225/01/07/39/58**  
**14PV422/01/07/39/58**  
**14PV425/07**

# Service Manual

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Sec. 1: Adjustment Procedure  
Schematic Diagrams and CBA's  
Exploded Views  
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Mechanism Alignment Procedures  
Disassembly / Assembly of Mechanism  
Deck Exploded Views

For technical data reference is made to the Service Manual of  
14PV374/01/07/39/58 & 14PV375/01/07/39/58 3103 785 22220.  
The present Manual states only the differences.

## Survey of versions:

/01	PAL-BG, EURO
/07	PAL I, UK/IRELAND
/39	PAL/SECAM-BG+PAL/SECAM-L/L', FRANCE
/58	PAL-BG/DK+SECAM-BG/DK, EAST-EURO

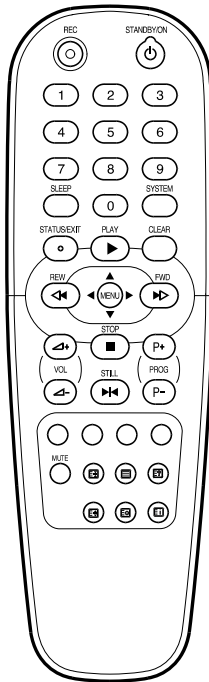
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.



# OPERATING CONTROLS AND FUNCTIONS

[ 14PV120/07, 14PV125/ ( 01, 07, 39, 58 ), 14PV225/ ( 01, 07, 39, 58 ), 14PV422/ ( 01, 07, 39, 58 ), 14PV425/07 ]

## The remote control



**CLEAR** To delete last entry/Clear programmed recording (TIMER).

**REC** To record the TV channel selected at this moment or press repeatedly to start a One-Touch Recording.

**STILL** To stop the tape and show a still picture.

**PROG P+** **PROG P-** To select the programme number. During normal or slow motion playback, press to adjust the tracking or vertical jitter.

**MUTE** To eliminate the sound. Press again to restore the volume.

**VOL +** **VOL -** To adjust the volume.

**SYSTEM** Doesn't work on these models.

**SLEEP** To select the switch-off time in 30 minutes intervals.

**STANDBY/ON** To switch TVCR on or off, interrupt menu function.

**MENU** To call up main menu of TVCR.

**STATUS/EXIT** To access or remove the TVCR's on-screen status display. To exit on-screen menus.

**0..9** Press to select channels.

**FWD** When tape playback is stopped, press to fast forward the tape at high speed. During playback, press to fast forward the tape while the picture stay on the screen. To store or confirm entry in the menu. Press to adjust the controls of TVCR menu.

**REW** When tape playback is stopped, press to rewind the tape at high speed. During playback, press to rewind the tape while the picture stay on the screen. To return the cursor in the menu. Press to adjust the controls of TVCR menu.

**PLAY** To play a tape, select an item in the menu of TVCR.

**STOP** To stop the tape, select an item in the menu of TVCR.

**Red button / Green button / Yellow button/ Blue button /** Doesn't work on these models.

### <14PV225>

**TELETEXT** : To switch TELETEXT on or off, or transparent mode.

**ENLARGE FONT** : enlarge font

**SELECT TELETEXT SUB-PAGE** : select TELETEXT sub-page

**RECALL HIDDEN INFORMATION** : recall hidden information

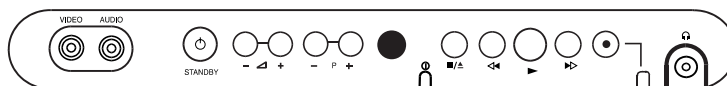
**STOP PAGE CHANGES** : stop page changes

**GO BACK TO START PAGE** : go back to start page.

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## Front of the device

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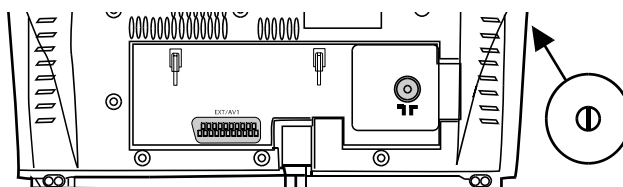


- Standby/on:** To switch TVCR on or off, interrupt menu function.
- Volume:** In connection with the button , to adjust the volume.
- Programme number minus:** previous programme number
- Programme number plus:** next programme number
- Record:** To record the programme currently selected.
- Playback:** To play a recorded cassette.
- Pause/Stop, eject cassette:** To stop the tape; If this key is depressed while in STOP, the cassette is then ejected from the machine.
- When tape playback is stopped, press to fast forward the tape at high speed.
- When tape playback is stopped, press to rewind the tape at high speed.
- Sockets on the front:**
  - White socket / input socket:** To connect a camcorder or video games (audio).
  - Yellow socket / input socket:** To connect a camcorder or video games (video).
  - Small socket / socket for headphones:** To connect headphones.

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## Back of the set

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- Aerial input socket:** To connect the aerial cable
- EXT1/AV Scart socket :** To connect a satellite receiver, decoder, video recorder, etc
- Power switch:** To switch the TV-Video Combi off.

**Caution:** If you switch off using the power switch, TIMER-recordings are impossible!

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## The control lights at the front of machine

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- STANDBY ● Standby light:** lights up when the TV-Video Combi has been switched on by means of the main switch.
- RECORD ● Recording light:** lights up during recording.
- FAST blink:** RECORDING PAUSE; TIMER RECORDING NOT STAND-BY.
- SLOW blink:** TIMER RECORDING is stored in a timer block.

[ 14PV120/07, 14PV125/ (01, 07, 39, 58), 14PV225/ (01, 07, 39, 58), 14PV422/ (01, 07, 39, 58), 14PV425/07 ]

Servo/System Control Block Diagram

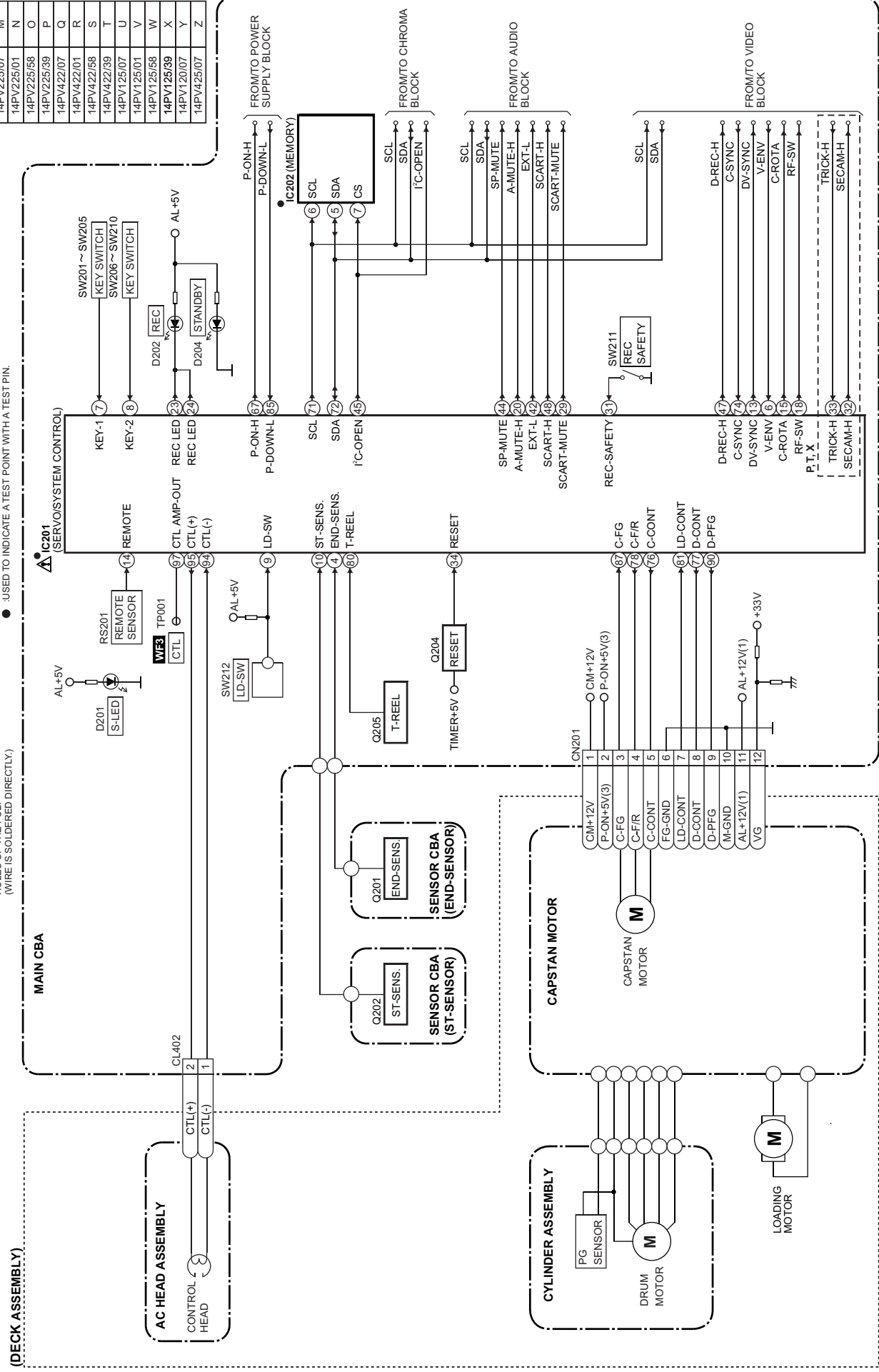
- NOTE FOR WIRE CONNECTORS:
- 1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
(CAN DISCONNECT AND RECONNECT.)
  - 2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER HOLES OF THE PCB.  
(WIRE IS SOLDERED DIRECTLY.)

TEST POINT INFORMATION

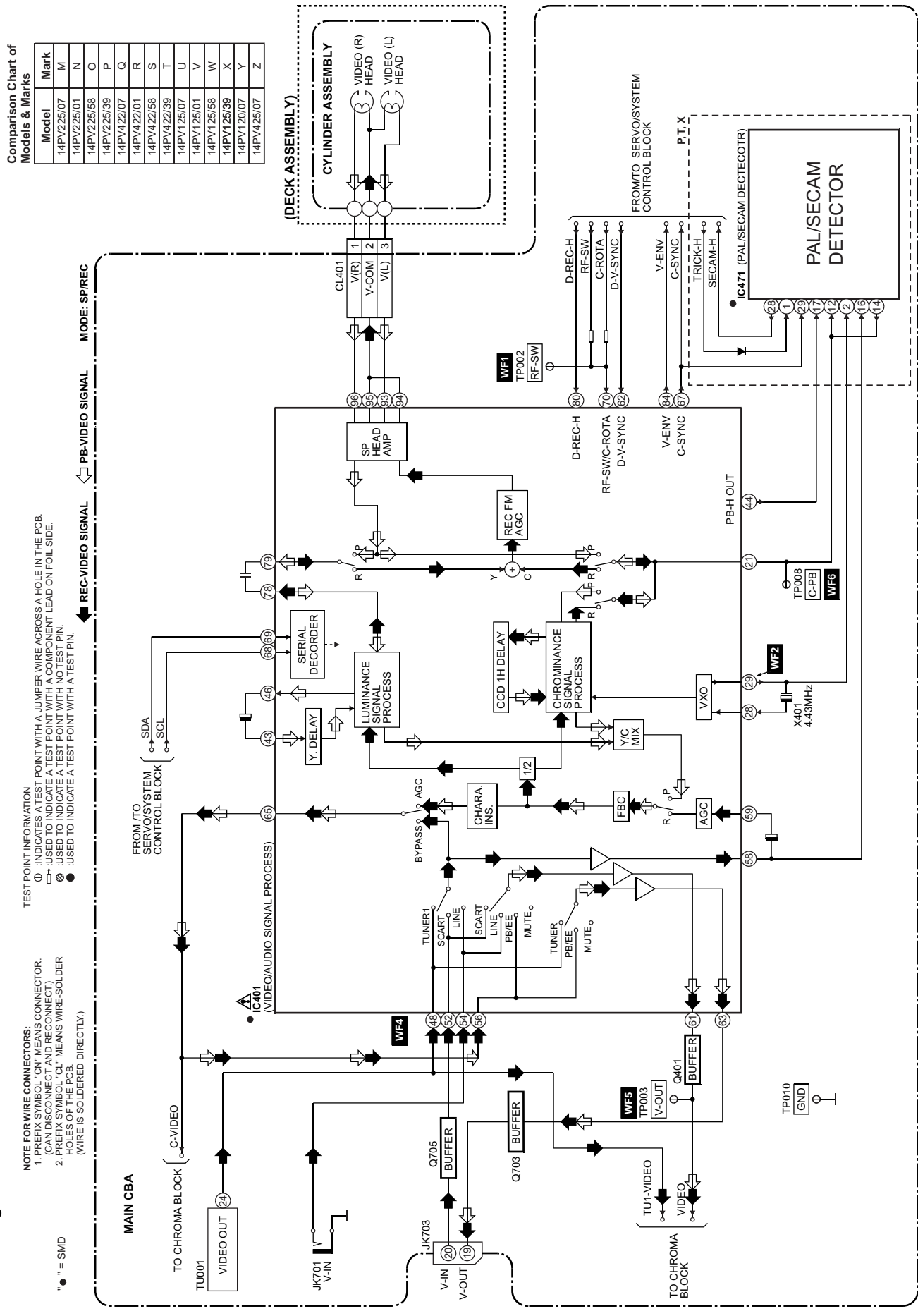
- INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB.
- ➔ USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOL SIDE.
- ⊗ USED TO INDICATE A TEST POINT WITH A TEST PIN.
- USED TO INDICATE A TEST POINT WITH A TEST PIN.

Comparison Chart of Models & Marks

Model	Mark
14PV225/07	M
14PV225/01	N
14PV225/58	O
14PV225/39	P
14PV422/07	Q
14PV422/01	R
14PV422/58	S
14PV422/39	T
14PV125/01	U
14PV125/07	V
14PV125/58	W
14PV125/39	X
14PV120/07	Y
14PV425/07	Z



# Video Block Diagram



Comparison Chart of Models & Marks

Model	Mark
14PV225/07	M
14PV225/01	N
14PV225/58	O
14PV225/39	P
14PV422/07	Q
14PV422/01	R
14PV422/58	S
14PV422/39	T
14PV125/07	U
14PV125/01	V
14PV125/58	W
14PV125/39	X
14PV120/07	Y
14PV425/07	Z

**NOTE FOR WIRE CONNECTORS:**

- "●" = SMD

TEST POINT INFORMATION

① : INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB

□ : USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOIL SIDE.

● : USED TO INDICATE A TEST POINT WITH NO TEST PIN.

● : USED TO INDICATE A TEST POINT WITH A TEST PIN.



# Chroma Block Diagram

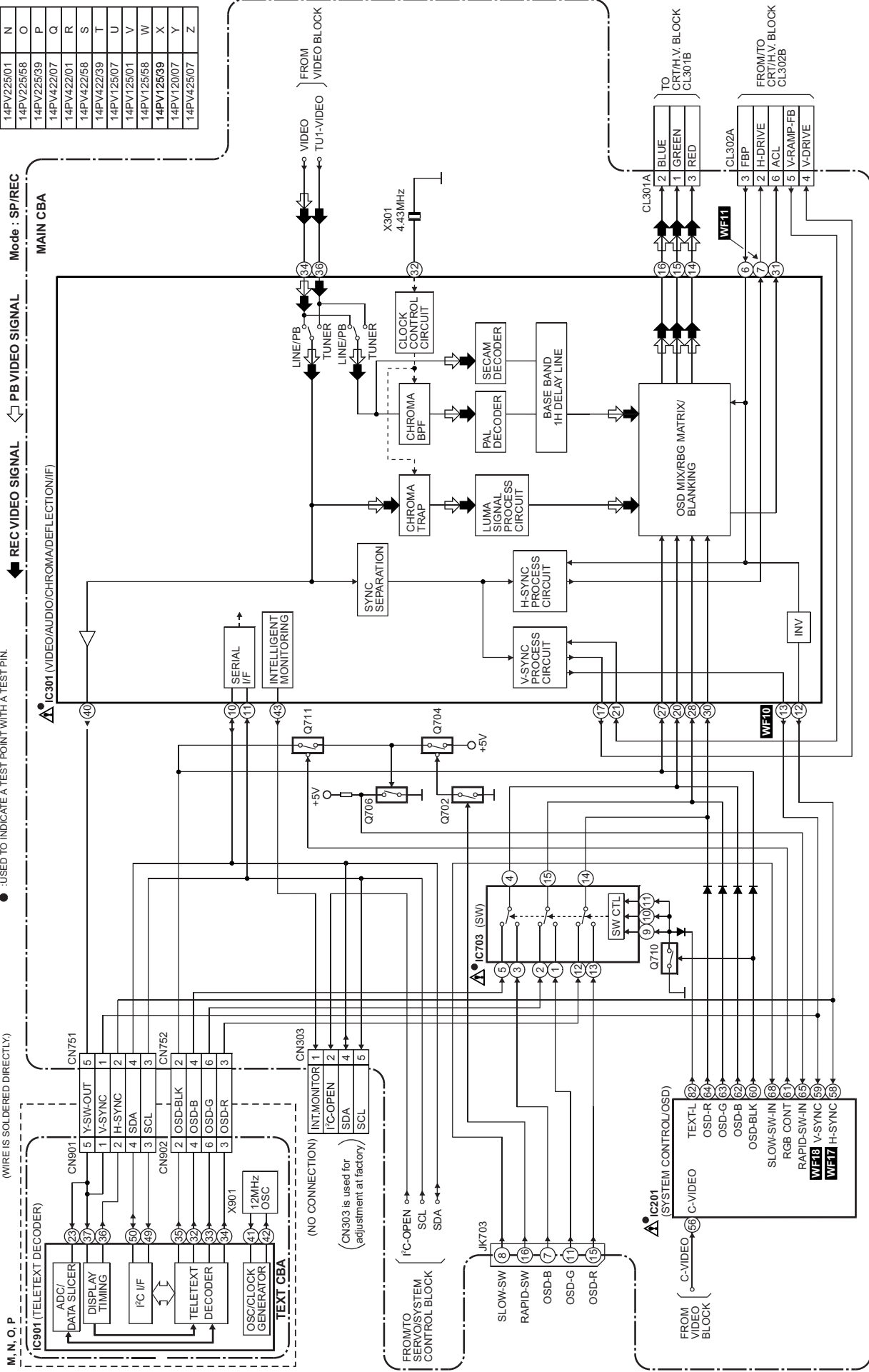
**NOTE FOR WIRE CONNECTORS:**  
 1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
 2. PREFIX SYMBOL "CL" MEANS WIRE SOLDER HOLES OF THE PCB.  
 (WIRE IS SOLDERED DIRECTLY)  
 "•" = SMD

## TEST POINT INFORMATION

- :INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB.
- ◻ :USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOIL SIDE.
- :USED TO INDICATE A TEST POINT WITH NO TEST PIN.
- :USED TO INDICATE A TEST POINT WITH A TEST PIN.

## Comparison Chart of Models & Marks

Model	Mark
14PV22507	M
14PV22501	N
14PV22558	O
14PV22539	P
14PV42207	Q
14PV42201	R
14PV42258	S
14PV42239	T
14PV12507	U
14PV12501	V
14PV12558	W
14PV12539	X
14PV12007	Y
14PV42507	Z



# CRT/H.V. Block Diagram

## NOTE FOR WIRE CONNECTORS:

1. PREFIX SYMBOL "CN" MEANS CONNECTOR.
2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER HOLES OF THE PCB.
3. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER HOLES OF THE PCB.
4. (WIRE IS SOLDERED DIRECTLY.)

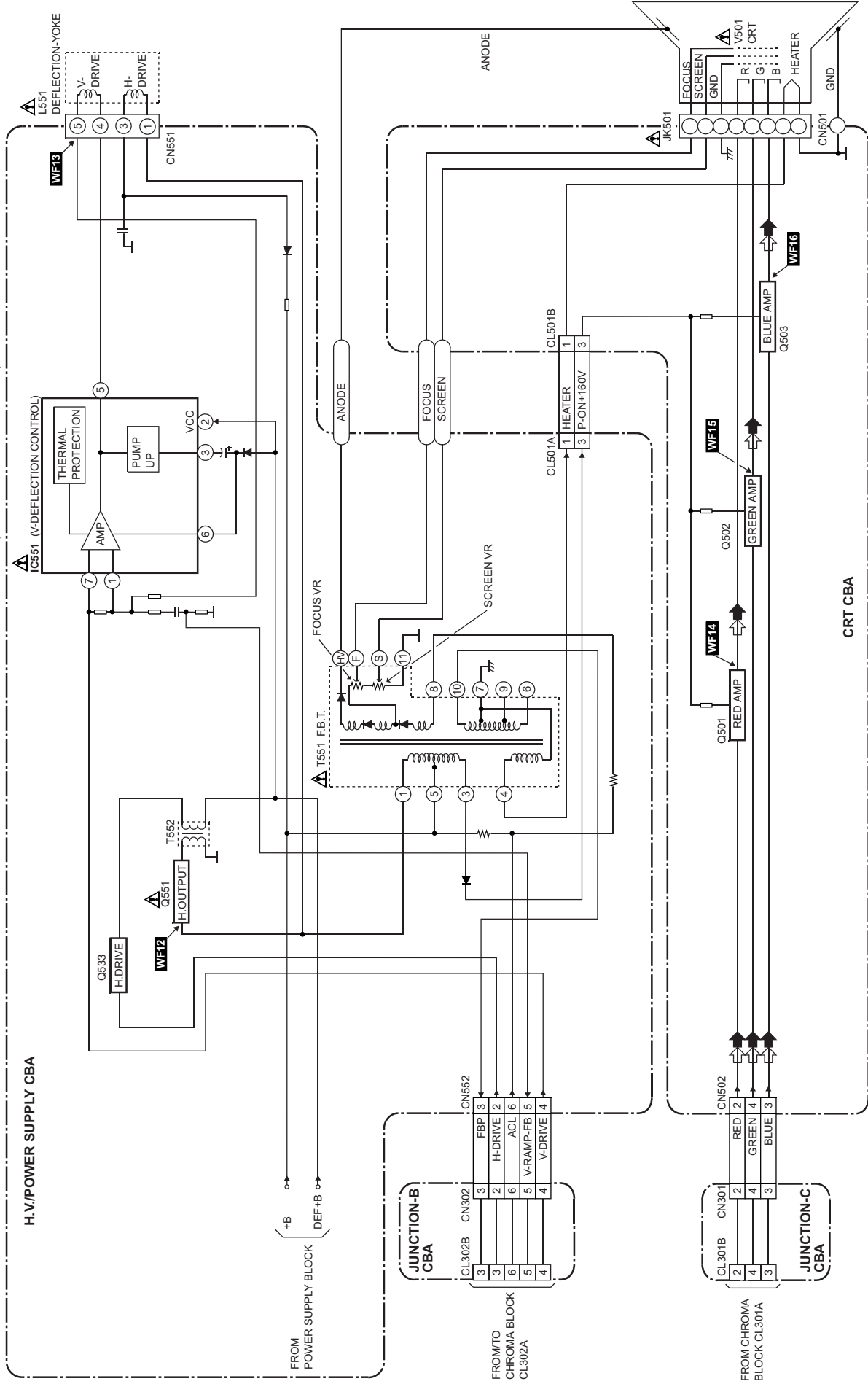
"•" = SMD

## TEST POINT INFORMATION

1. INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB.
2. USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOIL SIDE.
3. USED TO INDICATE A TEST POINT WITH A TEST PIN.
4. USED TO INDICATE A TEST POINT WITH A TEST PIN.

REC VIDEO SIGNAL PB VIDEO SIGNAL Mode : SP/REC

## H.V./POWER SUPPLY CBA



## Power Supply Block Diagram

### CAUTION !

Fixed voltage power supply circuit is used in this unit.

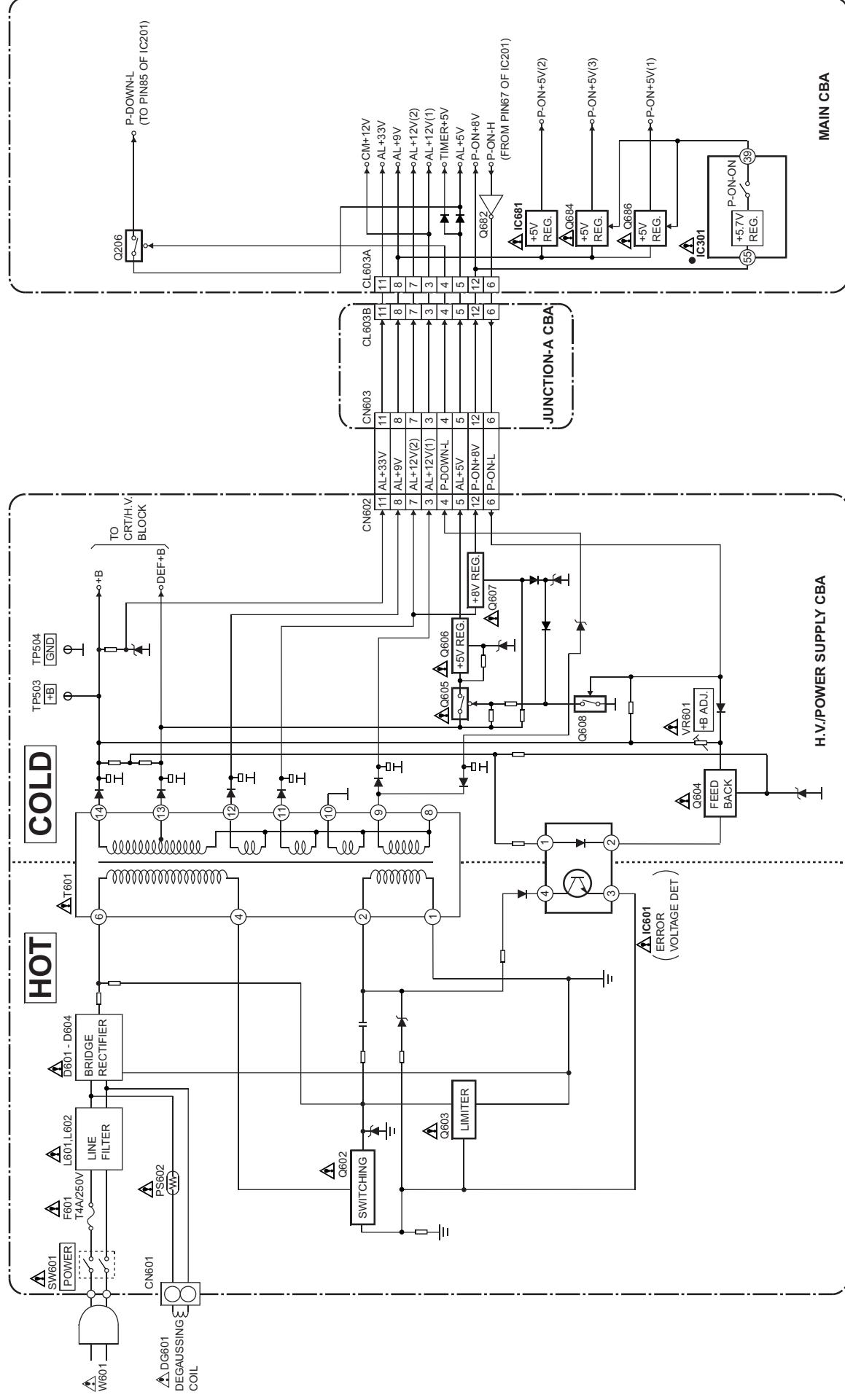
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

### CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,  
REPLACE ONLY WITH THE SAME TYPE T4A/250V FUSE.

### NOTE :

The voltage for parts in hot circuit is measured using hot GND as a common terminal.



**[14PV120/07,14PV125/(01,07,39,57),14PV225/(01,07,39,57),14PV422/(01,07,39,57),14PV425/07 ]**

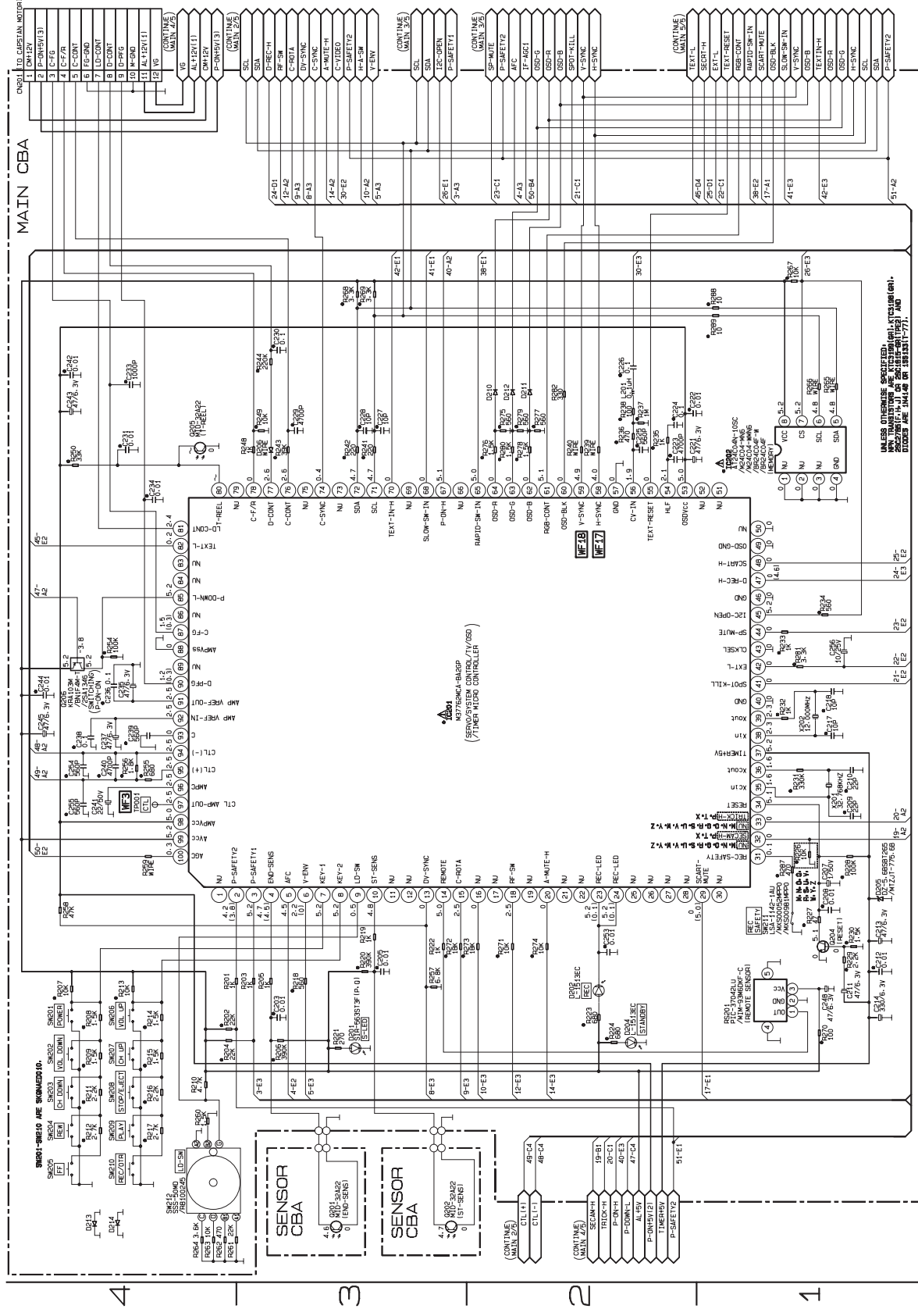
**Main 1/5 Schematic Diagram Parts Location Guide**

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CONNECTOR		RESISTORS		RESISTORS	
C203	B-3	CN201	F-5	R220	B-3	R268	E-3
C205	B-3	DIODES		R221	B-3	R269	E-3
C207	B-1	D201	B-3	R222	B-3	R270	B-1
C208	B-1	D202	B-2	R223	B-2	R271	B-2
C209	C-1	D204	B-2	R224	B-2	R272	B-3
C210	C-1	D205	B-1	R226	B-1	R273	B-2
C211	B-1	D206	D-3	R227	B-1	R274	B-2
C212	B-1	D210	D-2	R228	B-1	R275	D-2
C213	B-1	D211	D-2	R229	B-1	R276	D-2
C214	B-1	D212	D-2	R230	B-1	R277	D-2
C217	C-1	D213	A-4	R231	C-1	R278	D-2
C218	C-1	D214	A-4	R232	C-1	R279	D-2
C221	D-2	ICS		R233	C-1	R280	D-2
C222	D-2	IC201	C-3	R234	C-1	R281	C-1
C223	D-2	IC202	D-1	R235	D-2	R282	D-2
C224	D-2	COIL		R236	D-2	R287	B-1
C225	D-2	L201	D-2	R237	D-2	R288	E-1
C226	D-2	TRANSISTORS		R238	D-2	R289	E-1
C227	D-3	Q204	B-1	R239	D-2	SWITCHES	
C228	D-3	Q205	D-4	R240	D-2	SW201	B-4
C229	D-3	Q206	C-4	R241	D-3	SW202	A-4
C230	E-3	RESISTORS		R242	D-3	SW203	A-4
C231	D-4	R201	B-4	R243	D-3	SW204	A-4
C233	D-4	R202	B-4	R244	D-3	SW205	A-4
C234	D-4	R203	B-3	R248	D-3	SW206	B-4
C235	C-4	R204	B-4	R249	D-3	SW207	A-4
C236	C-4	R205	B-3	R250	D-3	SW208	A-4
C237	C-4	R206	B-3	R254	C-4	SW209	A-4
C238	C-4	R207	B-4	R255	C-4	SW210	A-4
C239	C-4	R208	B-4	R256	C-4	SW211	B-1
C240	C-4	R209	A-4	R257	B-3	SW212	A-4
C241	C-4	R210	A-4	R258	B-4	TEST POINT	
C242	D-4	R211	A-4	R259	B-4	TP001	C-4
C243	D-4	R212	A-4	R260	A-4	CRYSTAL OSCILLATORS	
C244	C-4	R213	B-4	R261	A-4	X201	C-1
C245	C-4	R214	B-4	R262	A-4	X202	C-1
C248	B-1	R215	A-4	R263	A-4	MISCELLANEOUS	
C253	B-2	R216	A-4	R264	A-4	RS201	B-1
C254	C-4	R217	A-4	R265	D-1		
C255	C-4	R218	B-3	R266	D-1		
C256	C-1	R219	B-3	R267	E-1		

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:

THE SAME VOLTAGE FOR BOTH PLAY & REC MODES, INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.

## Comparison Chart of Models and Marks



UNLESS OTHERWISE SPECIFIED:  
NPN TRANSISTORS ARE KTC3198(GR), KTC3198(GR),  
2SC2705(F, H) OR 2SC1815-GR1(P2) AND  
DIODES ARE 1N4148 OR 1N5133(T-77).

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:

THE SAME VOLTAGE FOR BOTH PLAY & REC MODES. INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.



MAIN CBA

## Main 2/5 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		COILS		RESISTORS	
C401	J-1	C443	H-3	L402	H-3	R851	H-1
C402	J-1	C444	H-2	L403	H-4	R852	H-1
C403	J-2	C445	H-2	L852	H-1	R853	H-1
C404	J-1	C452	J-4	L854	H-1	R854	H-1
C405	J-1	C851	H-1	TRANSISTORS		R856	H-1
C406	J-2	C855	H-1	Q401	J-4	R857	G-1
C407	J-1	C856	G-1	Q851	H-1	R858	G-1
C408	J-1	C857	G-1	Q852	G-1	R859	H-1
C409	K-2	C858	H-1	Q853	G-1	R860	H-1
C410	K-2	C859	H-1	Q854	H-1	R861	I-1
C411	K-2	C860	H-1	Q855	H-1	R862	I-1
C412	K-2	C861	H-2	Q856	H-1	R863	H-1
C413	K-2	C862	H-1	Q857	H-3	R864	I-1
C414	K-2	C863	I-1	RESISTORS		R865	I-1
C415	K-3	C864	I-1	R401	J-1	R866	I-1
C416	K-3	C865	I-1	R402	J-1	R867	I-1
C417	K-3	C866	I-2	R405	K-2	R869	I-1
C418	K-3	C867	I-1	R406	K-2	R870	I-1
C419	K-3	C868	I-1	R407	K-3	R871	J-2
C420	K-3	C869	I-1	R408	K-4	R874	I-1
C421	K-3	C871	I-1	R409	K-4	R876	I-1
C424	K-4	C872	J-1	R410	J-4	R877	I-1
C425	J-4	C874	I-1	R411	J-4	R878	H-2
C426	K-4	C875	I-1	R412	I-4	R879	H-2
C427	J-4	C876	J-1	R413	I-4	CRYSTAL OSCILATOR	
C430	H-4	CONNECTORS		R414	I-4	X401	J-2
C431	J-4	CL401	G-3	R415	H-4	TEST POINTS	
C432	J-4	CL402	G-1	R416	H-4	TP002	I-4
C433	J-4	CL403	G-1	R417	H-4	TP003	K-4
C434	J-4	DIODES		R418	H-3	TP007	I-1
C435	I-4	D401	K-3	R420	H-3	TP008	J-1
C436	H-4	D402	H-4	R422	K-4	TP010	K-1
C438	H-4	IC		R423	K-4		
C440	H-4	IC401	H-2	R424	H-4		
C441	H-4	COILS		R425	I-4		
C442	H-3	L401	K-3	R426	I-4		

### Main 3/5 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		RESISTORS	
C001	R-4	C333	N-2	R156	N-4
C002	Q-4	C334	N-2	R301	N-1
C006	P-4	C336	P-3	R302	N-1
C007	Q-3	C338	M-3	R303	N-1
C008	Q-3	C339	M-3	R304	O-1
C009	R-3	C340	P-1	R305	O-1
C012	Q-4	C341	N-2	R306	O-1
C151	O-4	C344	M-3	R307	O-1
C152	N-4	C350	N-3	R308	O-1
C154	O-4	CONNECTORS		R309	O-1
C155	P-4	CL301A	R-1	R310	P-1
C156	P-4	CL302A	M-4	R311	P-3
C157	P-4	CN303	M-3	R312	O-1
C160	P-4	CN804	M-4	R313	P-2
C301	N-1	DIODES		R314	P-2
C302	N-1	D151	O-4	R315	P-2
C303	N-1	D152	O-4	R316	P-2
C304	N-1	D302	P-1	R317	P-3
C305	N-1	D303	P-1	R318	P-3
C307	O-3	D304	P-1	R320	O-3
C308	P-2	D305	P-3	R321	N-3
C309	P-2	D306	P-2	R322	N-3
C310	P-2	IC		R323	N-3
C311	P-2	IC151	O-4	R324	N-3
C312	P-2	IC301	N-1	R325	N-2
C313	P-2	COILS		R326	N-2
C314	P-2	J418F3	M-4	R327	M-2
C315	P-2	L001	Q-4	R328	N-2
C316	P-3	L151	N-4	R332	M-3
C317	P-3	L152	N-4	R333	M-3
C318	O-3	L302	P-2	R334	M-3
C319	P-3	L303	P-3	R335	N-3
C320	P-3	L304	N-1	R336	O-1
C321	O-3	L305	O-4	R339	O-1
C322	O-3	RESISTORS		R340	O-1
C323	N-3	R003	P-3	CRYSTAL OSCILATOR	
C324	N-3	R004	P-3	X301	P-3
C325	N-3	R005	P-3	MISCELLANEOUS	
C326	N-3	R006	P-3	JK151	M-4
C327	N-3	R151	M-4	TU001	R-4
C328	N-3	R152	Q-4	TEST POINTS	
C330	N-2	R153	P-4	TP006	R-4
C331	N-2	R154	P-4		
C332	N-3	R155	N-4		

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:

THE SAME VOLTAGE FOR BOTH PLAY & REC MODES. INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.

PLAY MODE  
REC MODE

15.0    ~    5.0    (2.5)



Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:



MODEL	MARK
14PV225/07	M
14PV225/01	N
14PV225/58	O
14PV225/39	P
14PV422/07	Q
14PV422/01	R
14PV422/58	S
14PV422/39	T
14PV125/07	U
14PV125/01	V
14PV125/58	W
14PV125/39	X
14PV120/07	Y
14PV425/07	Z



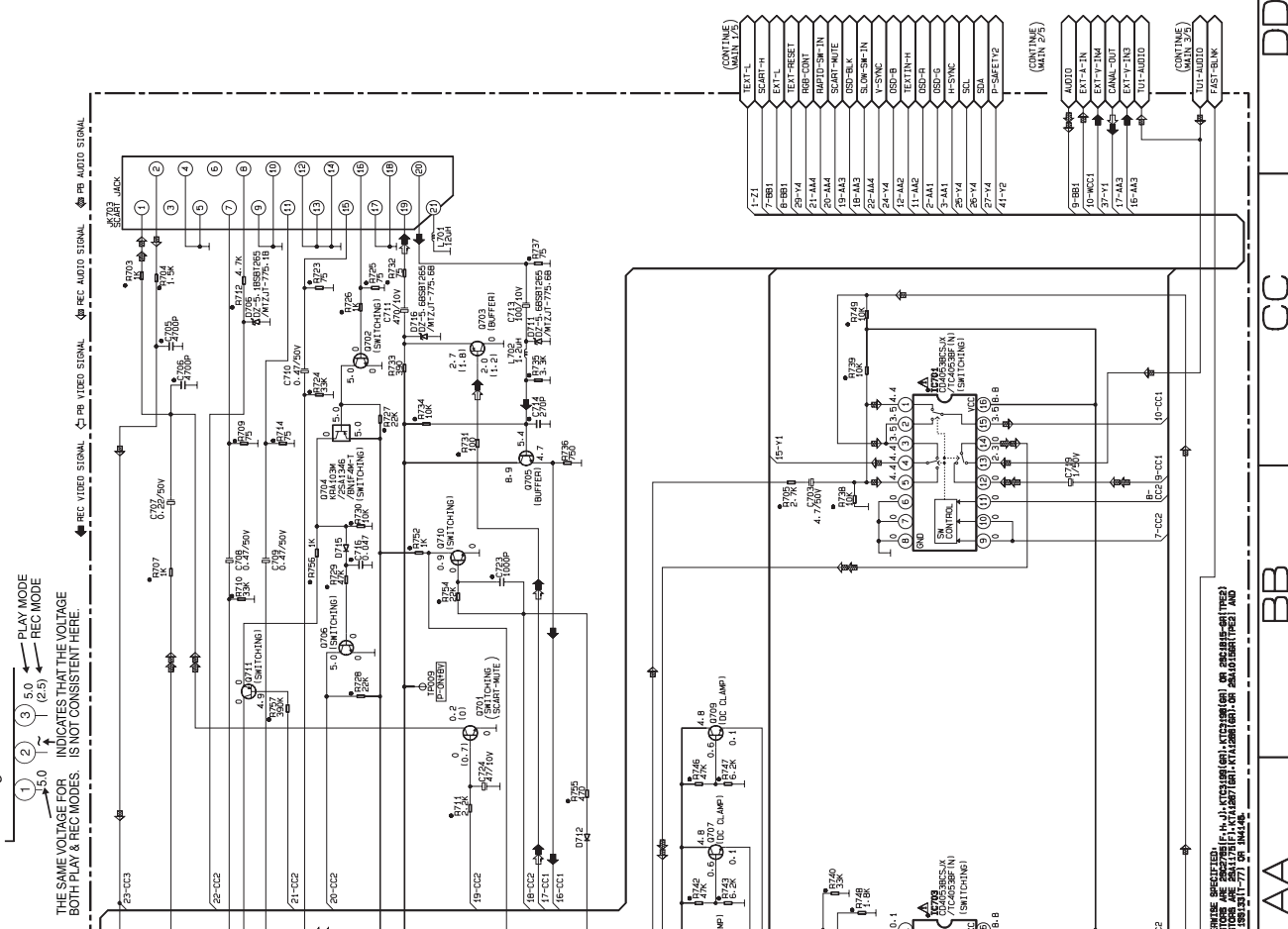
## Main 4/5 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position
CAPACITORS		DIODES	
C471	T-3	D688	U-2
C472	T-3	D690	U-2
C473	T-3	D691	U-2
C474	T-3	D693	W-1
C475	U-3	D694	T-2
C476	U-3	ICS	
C478	U-3	IC471	T-3
C479	U-4	IC681	T-2
C480	U-4	COILS	
C481	U-4	L681	T-1
C483	U-3	L682	T-2
C484	T-4	TRANSISTORS	
C485	T-4	Q682	T-1
C486	T-4	Q684	S-2
C681	T-1	Q685	U-2
C682	U-2	Q686	U-1
C683	T-2	RESISTORS	
C684	T-2	R471	T-3
C687	S-2	R681	S-1
C688	U-1	R683	T-2
C689	T-1	R684	U-1
C691	U-2	R685	T-1
C692	U-2	R686	T-1
C694	W-2	R690	T-2
CONNECTOR		R691	S-2
CL603A	S-2	R692	U-2
DIODES		R693	T-2
D471	T-3	R694	T-2
D682	T-1	R696	T-1
D686	U-3	R697	W-1
D687	U-2	R698	W-1

## Main 5/5 Schematic Diagram Parts Location Guide

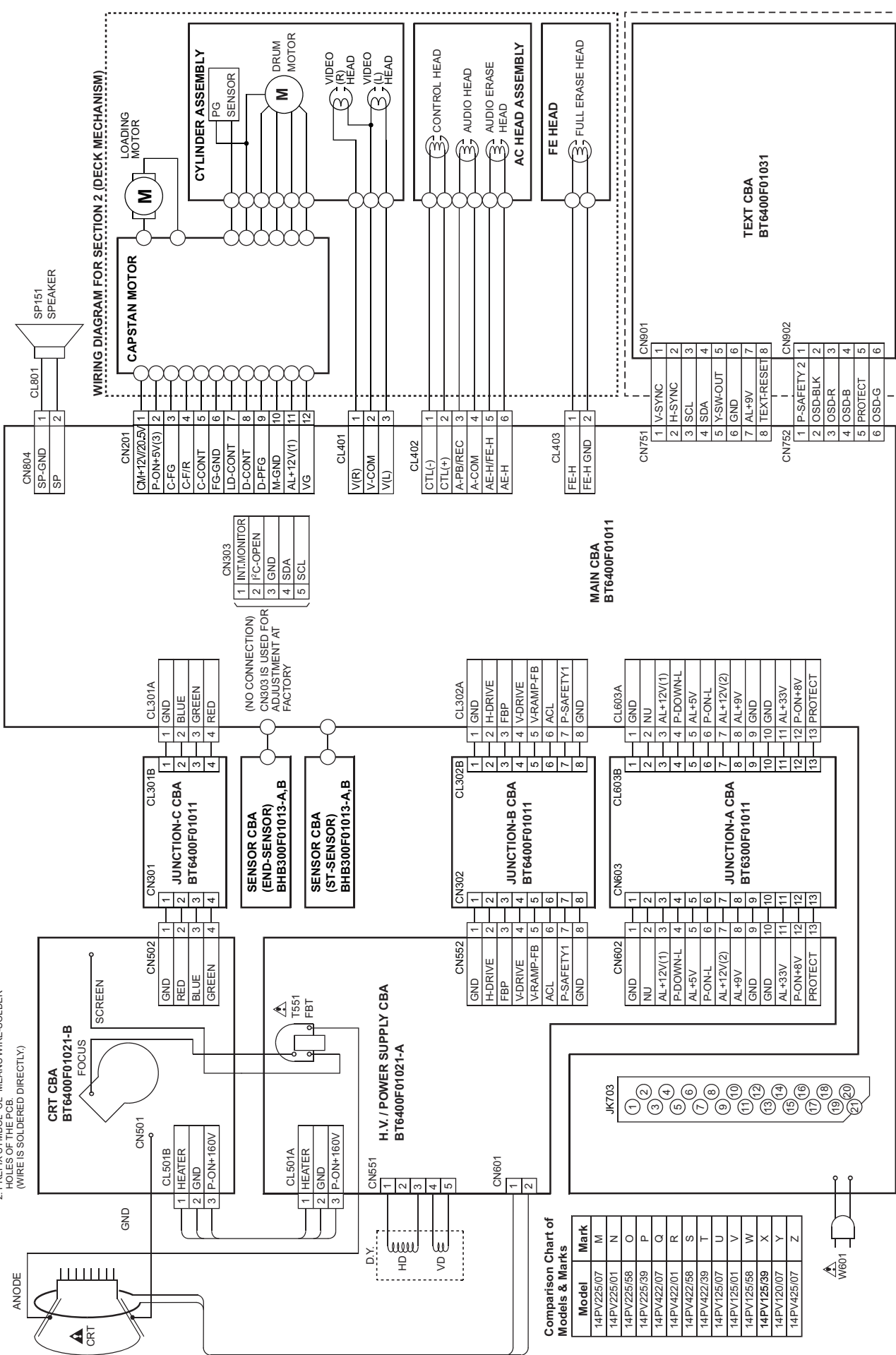
Ref No.	Position	Ref No.	Position
CAPACITORS		RESISTORS	
C701	Y-1	R705	BB-2
C703	BB-2	R707	AA-4
C705	CC-4	R709	CC-4
C706	CC-4	R710	BB-4
C707	AA-4	R711	AA-3
C708	BB-4	R712	CC-4
C709	BB-4	R714	CC-4
C710	CC-4	R723	CC-4
C711	CC-3	R724	CC-4
C713	CC-3	R725	CC-4
C714	CC-3	R726	CC-4
C715	Z-1	R727	CC-3
C716	BB-4	R728	BB-4
C719	BB-1	R729	BB-4
C723	BB-3	R730	BB-4
C724	AA-3	R731	CC-3
CONNECTOR		R732	CC-3
CN751	Y-4	R733	CC-3
CN752	Y-2	R734	CC-3
DIODES		R735	CC-3
D706	CC-4	R736	CC-3
D711	CC-3	R737	CC-3
D712	AA-3	R738	BB-2
D713	Z-1	R739	CC-2
D715	BB-4	R740	AA-2
D716	CC-3	R741	Z-1
ICS		R742	AA-2
IC701	CC-2	R743	AA-2
IC703	AA-2	R744	AA-2
COILS		R745	AA-2
L701	CC-3	R746	AA-2
L702	CC-3	R747	AA-2
TRANSISTORS		R748	AA-2
Q701	BB-3	R749	CC-2
Q702	CC-4	R750	Y-1
Q703	CC-3	R751	Y-2
Q704	BB-4	R752	BB-3
Q705	BB-3	R753	Y-2
Q706	BB-4	R754	BB-3
Q707	AA-2	R755	AA-3
Q708	AA-2	R756	BB-4
Q709	BB-2	R757	BB-4
Q710	BB-3	TEST POINTS	
Q711	BB-4	TP009	BB-3
RESISTORS		MISCELLANEOUS	
R701	Y-1	JK701	Y-1
R702	Y-1	JK702	Y-1
R703	CC-4	JK703	CC-4
R704	CC-4		

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:



# WIRING DIAGRAM

NOTE FOR WIRE CONNECTORS:  
 1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
 2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER  
 (WIRE IS SOLDERED DIRECTLY)



Comparison Chart of Models & Marks

Model	Mark
14PV225/07	M
14PV225/01	N
14PV225/58	O
14PV225/39	P
14PV422/07	Q
14PV422/01	R
14PV422/58	S
14PV422/39	T
14PV125/07	U
14PV125/01	V
14PV125/58	W
14PV125/39	X
14PV120/07	Y
14PV425/07	Z



## IC PIN FUNCTION DESCRIPTIONS

[ 14PV120/07, 14PV125/ ( 01, 07, 39, 58 ), 14PV225/ ( 01, 07, 39, 58 ), 14PV422/ ( 01, 07, 39, 58 ), 14PV425/07 ]

Comparison Chart of Models and Marks

Model	Mark
14PV225/07	M
14PV225/01	N
14PV225/58	O
14PV225/39	P
14PV422/07	Q
14PV422/01	R
14PV422/58	S
14PV422/39	T
14PV125/07	U
14PV125/01	V
14PV125/58	W
14PV125/39	X
14PV120/07	Y
14PV425/07	Z

### IC 201 (TV/VCR Micro Computer)

“H” ≥ 4.5V, “L” ≤ 1.0V

Pin No.	Mark	IN/OUT	Signal Name	Function
1		-	NU	Not Used
2		IN	P-SAFETY 2	Power Supply Failure Detection 2
3		IN	P-SAFETY 1	Power Supply Failure Detection 1
4		IN	END-SENS	End-Sensor
5		IN	AFC	Automatic Frequency Control Signal
6		IN	V-ENV	Video Envelope Input
7		IN	KEY-1	Key 1 Input
8		IN	KEY-2	Key 2 Input
9		IN	LD-SW	Loading Switch Input
10		IN	ST-SENS	Start-Sensor
11		-	NU	Not Used
12		-	NU	Not Used
13		IN/OUT	D-V SYNC	Artificial V-Sync Output
14		IN	REMOTE	Remote Signal Input

Pin No.	Mark	IN/OUT	Signal Name	Function
15		OUT	C-ROTA	Color Phase Rotary Changeover Signal
16		-	NU	Not Used
17		-	NU	Not Used
18		OUT	RF-SW	Video Head Switching Pulse
19		-	NU	Not Used
20		OUT	A-MUTE-H	Audio Mute Control Signal (Mute = “H”)
21		-	NU	Not Used
22		-	NU	Not Used
23		OUT	REC-LED	Recording LED Control Signal
24		OUT	REC-LED	Recording LED Control Signal
25		-	NU	Not Used
26		-	NU	Not Used
27		-	NU	Not Used
28		-	NU	Not Used
29		IN	SCART-MUTE	RAPID-Switch Input Signal from Scart Jack
30		-	NU	Not Used
31		IN	REC-SAFETY	Record Protection Tab Detection
32	M,N, O,Q, R,S, U,V, W,Y, Z	-	NU	Not Used
	P,T,X	IN	SECAM-H	SECAM Mode at High

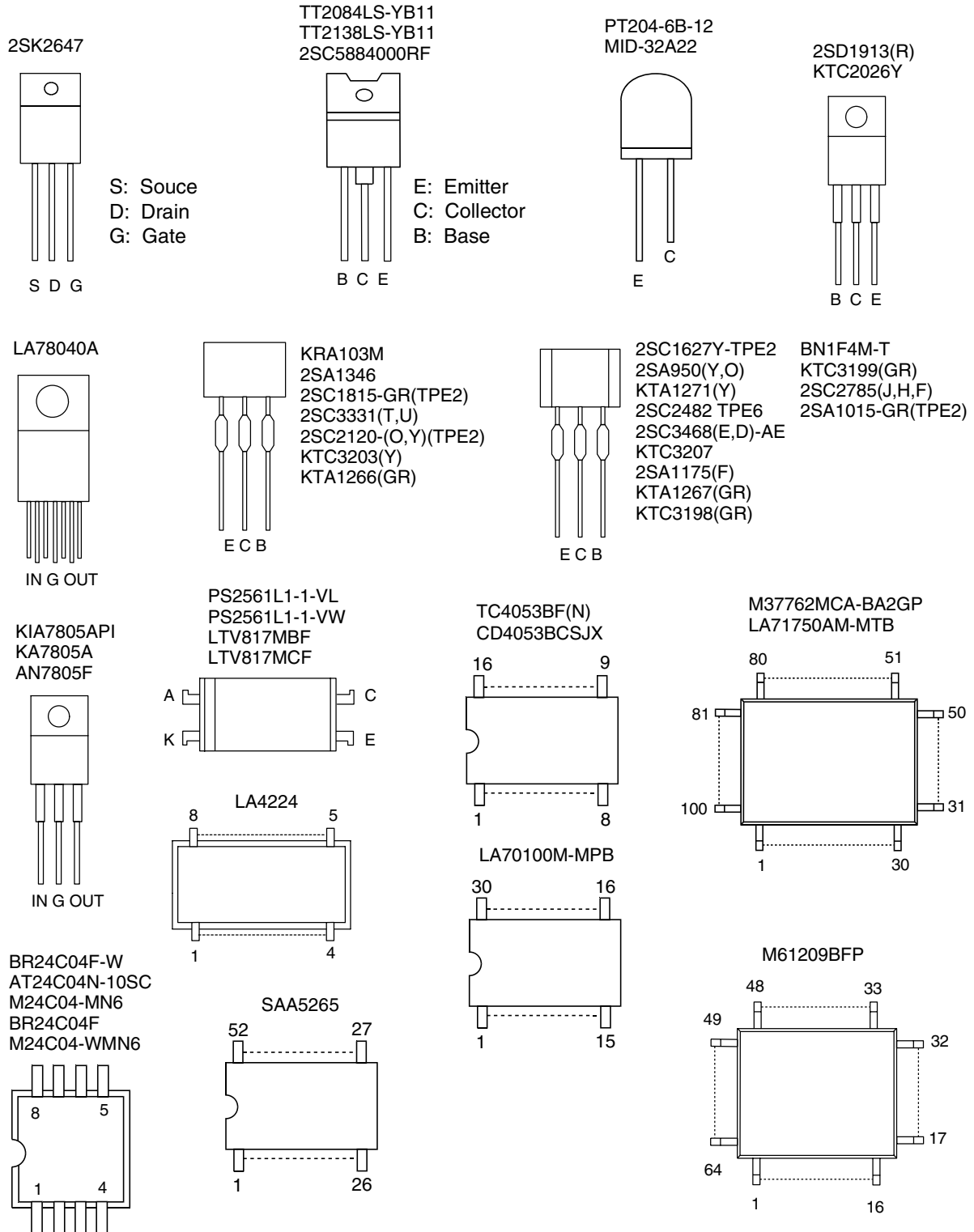
Pin No.	Mark	IN/OUT	Signal Name	Function
33	M,N, O,Q, R,S, U,V, W,Y, Z	-	NU	Not Used
	P,T,X	OUT	TRICK-H	Special Playback = "H" in SECAM Mode
34		IN	RESET	System Reset Signal (Reset="L")
35		IN	XCIN	Sub Clock 32 kHz
36		OUT	XCOUT	Sub Clock 32 kHz
37		-	TIMER+5V	Vcc
38		IN	XIN	Main Clock Input
39		OUT	XOUT	Main Clock Output
40		-	GND	GND
41		OUT	SPOT-KILL	Counter-measure for Spot
42		OUT	EXT-L	External Input or Playback = Output
43		IN	CLKSEL	Clock Select (GND)
44		OUT	SP-MUTE	Speaker Mute Signal
45		IN	I2C-OPEN	White Balance Adjust Mode Judgment
46		-	GND	GND
47		OUT	D-REC-H	Delayed Record Signal
48		OUT	SCART-H	Switching Signal of Scart Jack and RCA Jack
49		-	OSD-GND	OSD GND
50		-	NU	Not Used
51		-	NU	Not Used
52		-	NU	Not Used
53		-	OSDVcc	OSDVcc
54		-	HLF	HLF
55		OUT	TEXT-RESET	Tele Text Reset
56		IN	CV-IN	Video Signal Input
57		-	GND	GND
58		IN	H-SYNC	H-SYNC Input
59		IN	V-SYNC	V-SYNC Input
60		OUT	OSD-BLK	Output for Picture Cut off

Pin No.	Mark	IN/OUT	Signal Name	Function
61		OUT	RGB-CONT	RGB Control Signal
62		OUT	OSD-B	Blue Output
63		OUT	OSD-G	Green Output
64		OUT	OSD-R	Red Output
65		IN	RAPIT-SW-IN	RAPID-Switch Input Signal
66		-	NU	Not Used
67		OUT	P-ON-H	Power On Signal at High
68		IN	SLOW-SW-IN	Slow Switch Input Signal
69		-	NU	Not Used
70		OUT	TEXT-IN-H	Tele Text Input Signal at High
71		OUT	SCL	E2PROM/CHROMA IC Tuner Communication Clock
72		IN/OUT	SDA	E2PROM/CHROMA IC Tuner Communication Data
73		-	NU	Not Used
74		IN	C-SYNC	C-Sync Input
75		-	NU	Not Used
76		OUT	C-CONT	Capstan Motor Control Signal
77		OUT	D-CONT	Drum Motor Control Signal
78		OUT	C-F/R	Capstan Motor FWD/REV Control Signal (FWD="L"/REV="H")
79		-	NU	Not Used
80		IN	T-REEL	Take Up Reel Rotation Signal
81		OUT	LD-CONT	Loading Motor Control Signal
82		OUT	TEXT-L	Teletext Control Signal
83	L	-	NU	Not Used
84		-	NU	Not Used
85		OUT	P-DOWN-L	Power Voltage Down Detector Signal at Low
86		-	NU	Not Used

Pin No.	Mark	IN/OUT	Signal Name	Function
87		IN	C-FG	Capstan Motor Rotation Detection Pulse
88		-	AMPVss	AMPVss (GND)
89		-	NU	Not Used
90		IN	D-PFG	Drum Motor Phase/Frequency Generator
91		OUT	AMP VREF-OUT	Standard Voltage Output
92		IN	AMP VREF-IN	Standard Voltage Input
93		-	C	C Terminal
94		IN/OUT	CTL (-)	CTL (-)
95		IN/OUT	CTL (+)	CTL (+)
96		-	AMPC	AMPC
97		OUT	CTL AMP-OUT	Control Amp Output
98		-	AMPVcc	AMPVcc
99		-	AVcc	A/D Converter Power Input/Standard Voltage Input
100		IN	AGC	Tuner IF Output Signal

# LEAD IDENTIFICATIONS

[ 14PV120/07, 14PV125/ ( 01, 07, 39, 58 ), 14PV225/ ( 01, 07, 39, 58 ),  
14PV422/ ( 01, 07, 39, 58 ), 14PV425/07 ]




**PRODUCT SAFETY NOTE:** Products marked with a 

have special characteristics important to safety.  
Before replacing any of these components, read carefully  
the product safety notice in this service manual.  
Don't degrade the safety of the product through improper servicing.

**NOTES:**

C.....±0.25%      D.....±0.5%      F.....±1%  
G.....±2%          J.....±5%          K.....±10%  
M.....±20%        N.....±30%        Z.....+80/-20%

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	 12 NC	Description													
<b>MMA CBA</b>															
Consists of the following															
		MAIN CBA	1	1	1	1	1	1	1	1	1	1	1	1	1
		JUNCTION A CBA	1	1	1	1	1	1	1	1	1	1	1	1	1
		JUNCTION B CBA	1	1	1	1	1	1	1	1	1	1	1	1	1
		JUNCTION C CBA	1	1	1	1	1	1	1	1	1	1	1	1	1
		SENSOR CBA	1	1	1	1	1	1	1	1	1	1	1	1	1
		POWER CBA	1	1	1	1	1	1	1	1	1	1	1	1	1
		CRT CBA	1	1	1	1	1	1	1	1	1	1	1	1	1
		TEXT CBA						1	1	1	1	1	1	1	
<b>MAIN CBA</b>															
<b>CAPACITORS</b>															
C001		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C002	9965 000 14863	ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C006	9965 000 13908	ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C007		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C008		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C009		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
C012		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C151		ELECTROLYTIC CAP. 330UF/16V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C152		CERAMIC CAP.(AX) X M 2200PF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C154		ELECTROLYTIC CAP. 470UF/16V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C155		ELECTROLYTIC CAP. 0.22UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C156		CHIP CERAMIC CAP. B K 4700PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C157		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C160		CHIP CERAMIC CAP. CH J 390PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C203		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C205		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C207		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C208		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C209		CHIP CERAMIC CAP. CH J 22PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C210		CHIP CERAMIC CAP. CH J 22PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C211		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C212		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C213		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C214		ELECTROLYTIC CAP. 330UF/6.3V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C217		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C218		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C221		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
C222		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C223		CHIP CERAMIC CAP.(MELF) Y K 2200PF/35V	1	1	1	1	1	1	1	1	1	1	1	1	1
C224		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C225		CHIP CERAMIC CAP. CH J 560PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C226		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C227		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C228		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C229		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C230		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C231		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C233		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1	1	1	1	1	1	1	1
C234		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C235		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C236		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C237		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C238		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C239		CHIP CERAMIC CAP. CH J 560PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C240		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C241		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C242		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C243		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C244		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C245		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C248		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C253		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C256		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C301		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C302		ELECTROLYTIC CAP. 1000UF/6.3V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C303		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C304		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C305		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C307		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C308		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C309		FILM CAP.(P) 0.1UF/50V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C310		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C311		ELECTROLYTIC CAP. 1000UF/6.3V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C312		CHIP CERAMIC CAP.(MELF) B K 180PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C313		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C314		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C315		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C316		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C317		CHIP CERAMIC CAP. CH J 150PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C318		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C319		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C320		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C321		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C322		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C323		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C324		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C325		MYLAR CAP. 0.22UF/50V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C326		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C327		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C328		MYLAR CAP. 0.22UF/50V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C330		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C331		ELECTROLYTIC CAP. 47UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C332		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C333		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C334		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C336		ELECTROLYTIC CAP. 47UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
C338		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1	1	1	1	1	1	1	1
C339		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C340		CHIP CERAMIC CAP.(MELF) SL J 100PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C341		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C344		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1	1	1	1	1	1	1	1
C350		ELECTROLYTIC CAP. 220UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C401		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C402		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C403		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C404		ELECTROLYTIC CAP. 100UF/6.3V H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C405		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C406		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C407		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C408		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C409		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C410		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C411		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C412		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C413		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C414		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C415		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C416		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C417		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C418		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C419		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C420		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C421		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C424		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C425		CHIP CERAMIC CAP. CH J 68PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C426		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C427		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C430		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C431		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C432		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C433		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C434		ELECTROLYTIC CAP. 22UF/16V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C435		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C436		CHIP CERAMIC CAP. CH J 120PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C438		CHIP CERAMIC CAP. CH J 220PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C440		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C441		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C442		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C443		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C444		CHIP CERAMIC CAP. B K 1000PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C445		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C452		CHIP CERAMIC CAP. CH J 68PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C471		CHIP CERAMIC CAP. B K 0.01UF/50V				1				1				1	
C472		CHIP CERAMIC CAP. B K 0.01UF/50V				1				1				1	
C473		CHIP CERAMIC CAP. F Z 0.1UF/50V				1				1				1	
C474		CHIP CERAMIC CAP. F Z 0.1UF/50V				1				1				1	
C475		CHIP CERAMIC CAP. F Z 0.1UF/50V				1				1				1	
C476		CHIP CERAMIC CAP. B K 0.01UF/50V				1				1				1	
C478		CHIP CERAMIC CAP. F Z 0.1UF/50V				1				1				1	
C479		CHIP CERAMIC CAP. B K 0.01UF/50V				1				1				1	
C480		CHIP CERAMIC CAP. B K 0.01UF/50V				1				1				1	
C481		ELECTROLYTIC CAP. 0.47UF/50V M H7				1				1				1	
C483		CHIP CERAMIC CAP. F Z 0.1UF/50V				1				1				1	
C484		CHIP CERAMIC CAP. CH J 820PF/50V				1				1				1	
C485		CHIP CERAMIC CAP. CH J 820PF/50V				1				1				1	

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
C486		ELECTROLYTIC CAP. 2.2UF/50V M H7				1			1					1	
C681		ELECTROLYTIC CAP. 220UF/16V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C682		ELECTROLYTIC CAP. 220UF/16V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C683		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C684		CHIP CERAMIC CAP.(MELF) SL J 100PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C687		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C688		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C689		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C691		ELECTROLYTIC CAP. 2.2UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C692		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C694		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C701		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C703		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C705		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C706		CHIP CERAMIC CAP.(MELF) Y K 6800PF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C707		ELECTROLYTIC CAP. 0.22UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C708		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C709		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C710		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C711		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C713		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C714		CHIP CERAMIC CAP. CH J 270PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C715		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C716		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C719		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C723		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1	1	1	1	1	1	1	1
C724		ELECTROLYTIC CAP. 47UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C851		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C855		ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C856		CERAMIC CAP. B K 470PF/100V	1	1	1	1	1	1	1	1	1	1	1	1	1
C857		FILM CAP.(P) 0.018UF/100V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C858		CHIP CERAMIC CAP. B K 2200PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C859		CHIP CERAMIC CAP.(MELF) SL J 33PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C860		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
C861		CERAMIC CAP.(AX) X M 1800PF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C862		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C863		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C864		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C865		CHIP CERAMIC CAP. B K 0.022UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C866		ELECTROLYTIC CAP. 33UF/10V H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C867		ELECTROLYTIC CAP. 4.7UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C868		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1	1	1	1	1	1	1	1
C869		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C871		CHIP CERAMIC CAP.(MELF) B K 150PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C872		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
C874		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C875		CHIP CERAMIC CAP. CH J 220PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C876		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
MISCELLANEOUS															
1005	3143 027 10191	TUN IF V+U PLL IEC BGDKI 03	1	1	1		1	1	1		1	1	1		1
1005	3143 027 10201	TUN IF V+U PLL IEC BGDKIL 03				1				1				1	
5000	3143 021 00011	COI DEGAUS FUNAI	1	1	1	1	1	1	1	1	1	1	1	1	1
8000	3143 021 00031	EARTH CABLE	1	1	1	1	1	1	1	1	1	1	1	1	1
8016	2422 070 98211	MAINS CORD EUR 2A5 1M7 JH BK B		1		1	1	1		1	1	1		1	1
8016	2422 070 98218	MAINS CORD UK 5A 1M8 BK B	1		1				1				1		
CONNECTORS															
CL604	9965 000 18088	WIRE ASSEMBLY 1P/45	1	1	1	1	1	1	1	1	1	1	1	1	1
CN201	9965 000 13840	FFC/FPC CONNECTOR, 12P	1	1	1	1	1	1	1	1	1	1	1	1	1
CN301	9965 000 05261	CONNECTOR 4P TUC-P04X-B1	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
CN302	9965 000 13916	CONNECTOR, 8P TUC-P08X-B1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN303	9965 000 13841	CONNECTOR BASE, 5P TUC-P05P-B1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN603	9965 000 18089	CONNECTOR 13P TUC-P13X-B1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN751	9965 000 13842	CONNECTOR BASE, 8P TUC-P08P-B1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN752	9965 000 13843	CONNECTOR BASE, 6P TUC-P06P-B1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN804	9965 000 13844	STRAIGHT CONNECTOR BASE	1	1	1	1	1	1	1	1	1	1	1	1	1
DIODES															
D151	9965 000 13848	ZENER DIODE MTZJT-777.5B	1	1	1	1	1	1	1	1	1	1	1	1	1
D152	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D201	9965 000 05250	LED SIR-563ST3F P	1	1	1	1	1	1	1	1	1	1	1	1	1
D202	9965 000 13846	LED(RED) L-1513EC	1	1	1	1	1	1	1	1	1	1	1	1	1
D204	9965 000 13846	LED(RED) L-1513EC	1	1	1	1	1	1	1	1	1	1	1	1	1
D205	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1	1	1	1	1	1	1
D206		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
D210	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D211	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D212	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D213	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D214	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D302	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D303	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D304	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D305	9965 000 11153	ZENER DIODE MTZJT-778.2B	1	1	1	1	1	1	1	1	1	1	1	1	1
D306	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D401	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D402	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D471	4822 130 32778	SWITCHING DIODE 1SS133(T-77)				1				1				1	
D682		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1	1	1	1	1	1	1
D686	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D687	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D688	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D690	9965 000 13848	ZENER DIODE MTZJT-777.5B	1	1	1	1	1	1	1	1	1	1	1	1	1
D691	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D693	9965 000 18090	ZENER DIODE MTZJT-776.2A	1	1	1	1	1	1	1	1	1	1	1	1	1
D694	9965 000 18091	ZENER DIODE MTZJT-7715B	1	1	1	1	1	1	1	1	1	1	1	1	1
D706	9965 000 12904	ZENER DIODE DZ-5.1BSBT265	1	1	1	1	1	1	1	1	1	1	1	1	1
D711	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1	1	1	1	1	1	1
D712	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D713	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D715	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D716	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1	1	1	1	1	1	1
IC's															
IC151	9965 000 13853	AUDIO AMP LA4224	1	1	1	1	1	1	1	1	1	1	1	1	1
IC201	9965 000 18092	MICRO COMPUTER M37762MCA-BA2GP	1	1	1	1	1	1	1	1	1	1	1	1	1
IC202	9965 000 13030	IC:MEMORY BR24C04F-W	1	1	1	1	1	1	1	1	1	1	1	1	1
IC301	9965 000 18093	IC:CHROMA/IF 1 CHIP M61209BFP	1	1	1	1	1	1	1	1	1	1	1	1	1
IC401	9965 000 12180	IC:Y/C/A LA71750AM-MTB	1	1	1	1	1	1	1	1	1	1	1	1	1
IC471	9965 000 13927	IC:SECAM LA70100M-MPB				1				1				1	
IC681	9965 000 13851	VOLTAGE REGULATOR KIA7805API	1	1	1	1	1	1	1	1	1	1	1	1	1
IC701	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1	1	1	1	1	1	1	1
IC703	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1	1	1	1	1	1	1	1
JACK															
JK151	9965 000 13855	HEADPHONE JACK MSJ-035-10A B	1	1	1	1	1	1	1	1	1	1	1	1	1
JK701	4822 265 11659	RCA JACK(YELLOW) MSP-281V4-B	1	1	1	1	1	1	1	1	1	1	1	1	1
JK702	4822 265 11661	RCA JACK(WHITE) MSP-281V1-B	1	1	1	1	1	1	1	1	1	1	1	1	1
JK703	9965 000 13854	SKIRT JACK 21P HRC-21V-02P	1	1	1	1	1	1	1	1	1	1	1	1	1
L001		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
COILS															

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
J418F3	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1	1	1	1	1	1	1	1
L151	9965 000 18094	INDUCTOR 1.8UH-J-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
L152	9965 000 13856	INDUCTOR 1.0UH-J-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
L201	9965 000 13857	INDUCTOR 0.10UH-K-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
L302	9965 000 13858	INDUCTOR 33UH-J-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
L303		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1	1	1	1	1
L304		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1	1	1	1	1
L305		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
L401	9965 000 13859	INDUCTOR 22UH-J-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
L402	9965 000 13858	INDUCTOR 33UH-J-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
L403	9965 000 13893	INDUCTOR 100UH-J-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
L681	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1	1	1	1	1	1	1	1
L682		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1	1	1	1	1
L701	9965 000 13860	INDUCTOR 12UH-J-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
L702	9965 000 13861	INDUCTOR 1.2UH-J-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
L852	9965 000 05705	INDUCTOR 47UH-K-5FT	1	1	1	1	1	1	1	1	1	1	1	1	1
L854	9965 000 18095	INDUCTOR 0.22UH-K-26T	1	1	1	1	1	1	1	1	1	1	1	1	1
TRANSISTORS															
Q204	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q205	9965 000 18096	PHOTO TRANSISTOR MID-32A22	1	1	1	1	1	1	1	1	1	1	1	1	1
Q206	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1	1	1	1	1	1	1	1
Q401	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q682	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q684	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q685	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q686	9965 000 13863	TRANSISTOR 2SD1913(R)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q701	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q702	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q703	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q704	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1	1	1	1	1	1	1	1
Q705	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q706	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q707	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q708	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q709	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q710	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q711	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q851	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1	1	1	1	1	1	1	1
Q852	4822 130 10097	TRANSISTOR 2SC3331(T)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q853	4822 130 10097	TRANSISTOR 2SC3331(T)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q854	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q855	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q856	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q857	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
RESISTORS															
R003	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R004	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R005		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R006		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R151		METAL OXIDE FILM RES. 1W J 12 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R152		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R153		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R154		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R155		CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R156		CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R201		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R202		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R203		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R204		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
R205		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R206		CHIP RES.(1608) 1/10W J 390K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R207		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R208		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R209		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R210		CARBON RES. 1/4W G 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R211		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R212		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R213		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R214		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R215		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R216		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R217		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R218		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R219		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R220		CHIP RES.(1608) 1/10W J 390K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R221		CARBON RES. 1/4W J 270 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R222		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R223		CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R224		CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R226		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1		1	1	1		1	1	1		1
R227		CHIP RES.(1608) 1/10W J 47 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R228		CHIP RES.(1608) 1/10W J 100K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R229		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R230		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R231		CHIP RES.(1608) 1/10W J 330K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R232		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R233		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R234		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R235		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R236		CHIP RES.(1608) 1/10W J 470 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R237		CHIP RES.(1608) 1/10W J 1M OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R238		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R239		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R240		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R241		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R242		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R243		CHIP RES.(1608) 1/10W J 39K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R244		CHIP RES.(1608) 1/10W J 220K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R248		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R249		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R250		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R254		CHIP RES.(1608) 1/10W J 100K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R255		CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R256		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R257		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R258		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R259		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R260		CARBON RES. 1/4W G 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R261		CARBON RES. 1/4W G 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R262		CARBON RES. 1/4W G 470 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R263		CARBON RES. 1/4W G 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R264		CARBON RES. 1/4W G 3.6K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R265		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R266		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R267		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R268		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R269		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R270		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
R271		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R272		CHIP RES.(1608) 1/10W J 18K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R273		CHIP RES.(1608) 1/10W J 18K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R274		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R275		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R276		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R277		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R278		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R279		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R280		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R281		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R282		CARBON RES. 1/4W J 330 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R287		CHIP RES.(1608) 1/10W J 470 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R288		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R289		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R301		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R302		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R303		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R304		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R305		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R306		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R307		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R308		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R309		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R310		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R311		CARBON RES. 1/4W J 12 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R312		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R313		CHIP RES.(1608) 1/10W J 220K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R314		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R315		CHIP RES.(1608) 1/10W J 150K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R316		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R317		CARBON RES. 1/4W J 220K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R318		CHIP RES.(1608) 1/10W J 6.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R320		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R321		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R322		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R323		CHIP RES.(1608) 1/10W J 15K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R324		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R325		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R326		CHIP RES.(1608) 1/10W J 6.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R327		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R328		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R332		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R333		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R334		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R335		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R336		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R339		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R340		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R401		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R402		CHIP RES.(1608) 1/10W J 8.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R405		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R406		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R407		CHIP RES.(1608) 1/10W J 390K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R408		CHIP RES.(1608) 1/10W J 330 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R409		CHIP RES.(1608) 1/10W J 330 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R410		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R411		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R412		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
R413		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R414		CHIP RES.(1608) 1/10W J 6.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R415		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R416		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R417		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R418		CHIP RES.(1608) 1/10W J 56K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R420		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R422		CHIP RES.(1608) 1/10W J 150 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R423		CHIP RES.(1608) 1/10W J 33 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R424		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R425		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R426		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R471		CHIP RES.(1608) 1/10W J 2.2K OHM				1				1				1	
R683		METAL OXIDE FILM RES. 1W J 2.2 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R684		CHIP RES.(1608) 1/10W J 10 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R685		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R686		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R690		METAL OXIDE FILM RES. 1W J 22 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R691		METAL OXIDE FILM RES. 1W J 5.6 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R692		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R693		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R694		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R696		METAL OXIDE FILM RES. 1W J 2.2 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R697		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R698		CHIP RES.(1608) 1/10W J 8.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R701		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R702		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R703		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R704		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R705		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R706		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R707		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R708		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R709		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R710		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R711		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R712		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R714		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R723		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R724		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R725		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R726		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R727		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R728		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R729		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R730		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R731		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R732		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R733		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R734		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R735		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R736		CARBON RES. 1/4W J 750 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R737		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R738		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R739		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R740		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R741		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R742		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R743		CHIP RES.(1608) 1/10W J 6.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
R744		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R745		CHIP RES.(1608) 1/10W J 6.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R746		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R747		CHIP RES.(1608) 1/10W J 6.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R748		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R749		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R750		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R751		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R752		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R753		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R754		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R755		CHIP RES.(1608) 1/10W J 470 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R756		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R757		CHIP RES.(1608) 1/10W J 470K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R851		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R852		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R853		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R854		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R856		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R857		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R858		CARBON RES. 1/4W J 820 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R859		CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R860		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R861		CHIP RES.(1608) 1/10W J 330K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R862		CHIP RES.(1608) 1/10W J 12K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R863		CHIP RES.(1608) 1/10W J 120 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R864		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R865		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R866		CHIP RES.(1608) 1/10W J 12K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R867		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R869		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R870		CHIP RES.(1608) 1/10W J 56K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R871		CHIP RES.(1608) 1/10W J 1M OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R874		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R876		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R877		CHIP RES.(1608) 1/10W J 15K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R878		CHIP RES.(1608) 1/10W J 12K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R879		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
RS201	9965 000 10857	REMOTE RECEIVER PIC-37042LU	1	1	1	1	1	1	1	1	1	1	1	1	1
SWITCHES															
SW201	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW202	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW203	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW204	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW205	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW206	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW207	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW208	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW209	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW210	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1	1	1	1	1	1	1	1
SW211	9965 000 12192	LEAF SWITCH MXS00052MPP0	1	1	1	1	1	1	1	1	1	1	1	1	1
SW212	9965 000 16626	ROTARY MODE SWITCH SSS-50MD	1	1	1	1	1	1	1	1	1	1	1	1	1
MISCELLANEUOS															
TB3	9965 000 18113	HEAD SHIELD S T6400RA	1	1	1	1	1	1	1	1	1	1	1	1	1
TB7	9965 000 18114	LED HOLDER T6400RA	1	1	1	1	1	1	1	1	1	1	1	1	1
TB21	9965 000 08566	BUSH, LED(F) H3700UD	1	1	1	1	1	1	1	1	1	1	1	1	1
TP001		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1	1	1	1	1
TP002		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1	1	1	1	1
TP003		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
TP006		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1	1	1	1	1	1	1
TP007		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1	1	1	1	1	1	1	1
TP008		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1	1	1	1	1
TP009		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1	1	1	1	1	1	1	1
TP010		PCB JUMPER D0.6-P22.5	1	1	1	1	1	1	1	1	1	1	1	1	1
X201	9965 000 09200	X'TAL 32.768KHZ(20PPM)	1	1	1	1	1	1	1	1	1	1	1	1	1
X202	9965 000 12194	X'TAL 12.000MHZ	1	1	1	1	1	1	1	1	1	1	1	1	1
X301	9965 000 13869	X'TAL 4.433619MHZ	1	1	1	1	1	1	1	1	1	1	1	1	1
X401	9965 000 05629	X'TAL 4.433619MHZ	1	1	1	1	1	1	1	1	1	1	1	1	1
JUNCTION A CBA															
CN301	9965 000 13836	LEAD WIRE 4P/300	1	1	1	1	1	1	1	1	1	1	1	1	1
JUNCTION B CBA															
CN302	9965 000 18115	LEAD WIRE 8P/190	1	1	1	1	1	1	1	1	1	1	1	1	1
JUNCTION C CBA															
CN603	9965 000 18116	LEAD WIRE 13P/190	1	1	1	1	1	1	1	1	1	1	1	1	1
SENSOR CBA															
Q201	9965 000 18096	PHOTO TRANSISTOR MID-32A22	1	1	1	1	1	1	1	1	1	1	1	1	1
Q202	9965 000 18096	PHOTO TRANSISTOR MID-32A22	1	1	1	1	1	1	1	1	1	1	1	1	1
POWER CBA															
Consists of the following															
H.V./POWER SUPPLY CBA			1	1	1	1	1	1	1	1	1	1	1	1	1
CRT CBA			1	1	1	1	1	1	1	1	1	1	1	1	1
JUNCTION D CBA			1	1	1	1	1	1	1	1	1	1	1	1	1
JUNCTION E CBA			1	1	1	1	1	1	1	1	1	1	1	1	1
H.V./POWER SUPPLY CBA			1	1	1	1	1	1	1	1	1	1	1	1	1
COILS															
BC551	9965 000 13874	BEAD INDUCTORS FBA04HA600VB-00	1	1	1	1	1	1	1	1	1	1	1	1	1
BC602	9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1	1	1	1	1	1	1	1
BC604	9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1	1	1	1	1	1	1	1
BC605	9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1	1	1	1	1	1	1	1
CAPACITORS															
C551		ELECTROLYTIC CAP. 2.2UF/50V M LL	1	1	1	1	1	1	1	1	1	1	1	1	1
C552		ELECTROLYTIC CAP. 1000UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C553		CERAMIC CAP.(AX) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C554		ELECTROLYTIC CAP. 470UF/35V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C555		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C556		ELECTROLYTIC CAP. 2.2UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C558		FILM CAP.(P) 0.047UF/50V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C559		CERAMIC CAP. R K 680PF/2KV(HR)	1	1	1	1	1	1	1	1	1	1	1	1	1
C560		P.P. CAP 0.0082UF/1.6K J	1	1	1	1	1	1	1	1	1	1	1	1	1
C561		FILM CAP.(P) 0.01UF/50V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C562		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C565		ELECTROLYTIC CAP. 47UF/160V M W/F	1	1	1	1	1	1	1	1	1	1	1	1	1
C567		ELECTROLYTIC CAP. 1UF/160V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C569		ELECTROLYTIC CAP. 4.7UF/250V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C570		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C572		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C575		P.P. CAP 0.18UF/200V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C576		P.P. CAP 0.15UF/200V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C577		ELECTROLYTIC CAP. 100UF/35V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C602	▲ 2020 554 90173	SAFETY CAP. 2200PF/250V KX	1	1	1	1	1	1	1	1	1	1	1	1	1
C604	▲ 9965 000 14280	METALLIZED FILM CAP. 0.1UF/250V	1	1	1	1	1	1	1	1	1	1	1	1	1
C605	▲ 9965 000 14280	METALLIZED FILM CAP. 0.1UF/250V	1	1	1	1	1	1	1	1	1	1	1	1	1
C607		CERAMIC CAP. 0.01UF/AC250V	1	1	1	1	1	1	1	1	1	1	1	1	1
C608		CERAMIC CAP. 0.01UF/AC250V	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
C609		CERAMIC CAP. 0.01UF/AC250V	1	1	1	1	1	1	1	1	1	1	1	1	1
C610		CERAMIC CAP. 0.01UF/AC250V	1	1	1	1	1	1	1	1	1	1	1	1	1
C611		ELECTROLYTIC CAP. 100UF/400V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C613		FILM CAP.(P) 0.039UF/50V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C614		FILM CAP.(P) 0.0012UF/50V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C615		FILM CAP.(P) 0.068UF/50V J	1	1	1	1	1	1	1	1	1	1	1	1	1
C616		CERAMIC CAP. R K 220PF/2KV(HR)	1	1	1	1	1	1	1	1	1	1	1	1	1
C617		ELECTROLYTIC CAP. 470UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C618		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C619		ELECTROLYTIC CAP. 1000UF/16V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C621		ELECTROLYTIC CAP. 470UF/16V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C622		ELECTROLYTIC CAP. 1000UF/16V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C624		CERAMIC CAP.(AX) SL J 68PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C625		ELECTROLYTIC CAP. 470UF/35V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C626		CERAMIC CAP. R K 680PF/2KV(HR)	1	1	1	1	1	1	1	1	1	1	1	1	1
C627		ELECTROLYTIC CAP. 100UF/160V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C629		CERAMIC CAP.(AX) B K 0.01UF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C630		ELECTROLYTIC CAP. 1000UF/6.3V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C631		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C632		ELECTROLYTIC CAP. 100UF/16V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C633		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C634		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C635		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1	1	1	1	1	1	1	1
C636		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1	1	1	1	1	1	1	1
CONNECTORS															
CN551	9965 000 13876	CONNECTOR BASE, 5P TV-50P-05-V3	1	1	1	1	1	1	1	1	1	1	1	1	1
CN552	9965 000 13842	CONNECTOR BASE, 8P TUC-P08P-B1	1	1	1	1	1	1	1	1	1	1	1	1	1
CN601	9965 000 13877	CONNECTOR BASE, 2P TV-50P-02-V3	1	1	1	1	1	1	1	1	1	1	1	1	1
CN602	9965 000 18117	CONNECTOR BASE 13P TUC-P13P-B1	1	1	1	1	1	1	1	1	1	1	1	1	1
DIODES															
D551	9965 000 13847	DIODE 1N5397-B	1	1	1	1	1	1	1	1	1	1	1	1	1
D553	9965 000 13882	ZENER DIODE MTZJT-7718B	1	1	1	1	1	1	1	1	1	1	1	1	1
D554	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D555	9965 000 13879	DIODE FR154	1	1	1	1	1	1	1	1	1	1	1	1	1
D556	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D557	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1	1	1	1	1	1	1
D557	9965 000 18118	RECTIFIER DIODE ERA22-02	1	1	1	1	1	1	1	1	1	1	1	1	1
D558	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1	1	1	1	1	1	1
D560	9965 000 13881	ZENER DIODE MTZJT-7736B	1	1	1	1	1	1	1	1	1	1	1	1	1
D561		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
D562	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D563	9965 000 12904	ZENER DIODE DZ-5.1BSBT265	1	1	1	1	1	1	1	1	1	1	1	1	1
D564	9965 000 18119	ZENER DIODE DZ-3.3BSBT265	1	1	1	1	1	1	1	1	1	1	1	1	1
D601	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1	1	1	1	1	1	1
D602	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1	1	1	1	1	1	1
D603	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1	1	1	1	1	1	1
D604	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1	1	1	1	1	1	1	1
D605	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D609	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1	1	1	1	1	1	1	1
D610	9965 000 13884	ZENER DIODE MTZJT-7720C	1	1	1	1	1	1	1	1	1	1	1	1	1
D612	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D613	4822 130 83883	RECTIFIER DIODE FR202	1	1	1	1	1	1	1	1	1	1	1	1	1
D614	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D615	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1	1	1	1	1	1	1
D616	9965 000 13882	ZENER DIODE MTZJT-7718B	1	1	1	1	1	1	1	1	1	1	1	1	1
D617	4822 130 83194	SCHOTTKY BARRIER DIODE 11EQS04	1	1	1	1	1	1	1	1	1	1	1	1	1
D618	4822 130 83194	SCHOTTKY BARRIER DIODE 11EQS04	1	1	1	1	1	1	1	1	1	1	1	1	1
D619	4822 130 80601	SCHOTTKY BARRIER DIODE ERB81-004	1	1	1	1	1	1	1	1	1	1	1	1	1
D620	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	▲ 12 NC	Description													
D621	9965 000 13886	DIODE 1ZC33	1	1	1	1	1	1	1	1	1	1	1	1	1
D622	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D623	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D624	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D625	4822 130 11629	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1	1	1	1	1	1	1
D626	9965 000 13885	FAST RECOVERY DIODE CA201-4	1	1	1	1	1	1	1	1	1	1	1	1	1
D627	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D629	4822 130 81729	ZENER DIODE MTZJT-7733C	1	1	1	1	1	1	1	1	1	1	1	1	1
D630	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D631	9965 000 13888	ZENER DIODE MTZJT-776.8A	1	1	1	1	1	1	1	1	1	1	1	1	1
D632	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
D633	9965 000 13889	ZENER DIODE MTZJT-7724B	1	1	1	1	1	1	1	1	1	1	1	1	1
D634		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
D635	9965 000 11153	ZENER DIODE MTZJT-778.2B	1	1	1	1	1	1	1	1	1	1	1	1	1
D636	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D637	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D638	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1	1	1	1	1	1	1	1
D640	4822 130 11629	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1	1	1	1	1	1	1	1
F601	▲ 9965 000 13890	FUSE 4A/250V 215004	1	1	1	1	1	1	1	1	1	1	1	1	1
FH601	4822 25610461	FUSE HOLDER MSF-015	1	1	1	1	1	1	1	1	1	1	1	1	1
FH602	4822 25610461	FUSE HOLDER MSF-015	1	1	1	1	1	1	1	1	1	1	1	1	1
IC's															
IC551	9965 000 18120	VERTICAL OUTPUT IC LA78040A	1	1	1	1	1	1	1	1	1	1	1	1	1
IC601	▲ 9965 000 13892	PHOTO COUPLER LTV817MBF	1	1	1	1	1	1	1	1	1	1	1	1	1
COILS															
L552		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1	1	1	1	1
L553	9965 000 18121	CHOKE COIL 22UH-K	1	1	1	1	1	1	1	1	1	1	1	1	1
L554	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1	1	1	1	1	1	1	1
L601	9965 000 13894	LINE FILTER ELF15N007A	1	1	1	1	1	1	1	1	1	1	1	1	1
L602	9965 000 13894	LINE FILTER ELF15N007A	1	1	1	1	1	1	1	1	1	1	1	1	1
L603	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1	1	1	1	1	1	1	1
MISCELLANEOUS															
PB1	9965 000 18122	POWER PCB HOLDER T6400RA	1	1	1	1	1	1	1	1	1	1	1	1	1
PB4		13V POW HEAT SINK PAL PHKT6400RA	1	1	1	1	1	1	1	1	1	1	1	1	1
PB5	9965 000 18123	13V P H/S PAL PHM ASSEMBLY T6400RA	1	1	1	1	1	1	1	1	1	1	1	1	1
PL1	9965 000 08646	SCREW, P-TIGHT 3X12 WASHER HEAD+	1	1	1	1	1	1	1	1	1	1	1	1	1
PL2	9965 000 12171	SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1	1	1	1	1	1	1
PL2		SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1	1	1	1	1	1	1
PS602	9965 000 13896	THERMISTOR ZPB31BL9R0A	1	1	1	1	1	1	1	1	1	1	1	1	1
TRANSISTORS															
Q551	9965 000 13897	TRANSISTOR TT2084LS-YB11	1	1	1	1	1	1	1	1	1	1	1	1	1
Q553	9965 000 13899	TRANSISTOR 2SC1627Y-TPE2	1	1	1	1	1	1	1	1	1	1	1	1	1
Q554	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q602	9965 000 13901	MOS FET 2SK2647	1	1	1	1	1	1	1	1	1	1	1	1	1
Q603	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q604	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q605	4822 130 63665	TRANSISTOR 2SA950(O)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q606	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q607	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1	1	1	1	1	1	1	1
Q608	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1	1	1	1	1	1	1	1
RESISTORS															
R551		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R552		CARBON RES. 1/4W J 3.3K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R553		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R554		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R555		CARBON RES. 1/4W J 5.6 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R556		CARBON RES. 1/4W J 5.6 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R557		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	▲ 12 NC	Description													
R558		CARBON RES. 1/4W J 4.7 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R559		CARBON RES. 1/4W J 4.7 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R560		CARBON RES. 1/4W J 4.7 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R561		CARBON RES. 1/4W J 4.7 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R564		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R565		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R566		CARBON RES. 1/4W J 470 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R568		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R569		CARBON RES. 1/4W J 270 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R570		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R572		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R573		METAL OXIDE FILM RES. 2W J 150 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R574		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R577		METAL OXIDE FILM RES. 2W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R578		METAL OXIDE FILM RES. 2W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R579		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R580		METAL OXIDE FILM RES. 2W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R581		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R583		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R584		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R585		CARBON RES. 1/4W J 180K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R586		CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R587		CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R588		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R589		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R590		METAL OXIDE FILM RES. 2W J 2.2 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R591		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R592		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R593		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R594		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R595		CARBON RES. 1/4W J 2.7 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R601		ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R602		ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R603		ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R604	▲ 9965 000 14277	CEMENT RESISTOR 5W 1.8 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R605		CARBON RES. 1/4W J 56 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R611		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R612		CARBON RES. 1/4W J 180 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R613		CARBON RES. 1/4W J 470K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R615		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R616		CARBON RES. 1/4W J 0.22 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R617	▲ 9965 000 14278	CEMENT RES. 5W K 0.68 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R618		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R619		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R620		CARBON RES. 1/4W J 820K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R621		CARBON RES. 1/4W J 560K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R622		CARBON RES. 1/4W J 680K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R624		CARBON RES. 1/4W J 680K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R625		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R626		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R627		CARBON RES. 1/4W J 2.2 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R628		CARBON RES. 1/4W J 820 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R631		CARBON RES. 1/4W J 33K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R632		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R633		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R634		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R635		CARBON RES. 1/4W J 180 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R636		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R637		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	▲ 12 NC	Description													
R638		CARBON RES. 1/4W J 39K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R639		CARBON RES. 1/4W J 39K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R640		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R641		CARBON RES. 1/2W J 1K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R642		CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R643		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R644		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R645		CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R646		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R647		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R649		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R651		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R652		METAL OXIDE FILM RES. 2W J 22 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R653		CARBON RES. 1/4W J 150 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R654		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R655		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R656		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R657		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R658		METAL OXIDE FILM RES. 2W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R659		METAL OXIDE FILM RES. 2W J 10K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R660		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R661		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R662		CARBON RES. 1/4W J 820K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
SA601	▲ 9965 000 13898	SURGE ABSORBER PVR-07D471KB	1	1	1	1	1	1	1	1	1	1	1	1	1
SWITCHES															
SW601	▲ 9965 000 13902	POWER SWITCH SDKVA30100	1	1	1	1	1	1	1	1	1	1	1	1	1
TRANSISTORS															
T551	9965 000 18124	FLYBACK TRANS BSC23-2603S	1	1	1	1	1	1	1	1	1	1	1	1	1
T552	9965 000 13904	HORIZONTAL DRIVE TRANS LP2-005	1	1	1	1	1	1	1	1	1	1	1	1	1
T601	▲ 9965 000 18125	SWITCHING TRANS 03701	1	1	1	1	1	1	1	1	1	1	1	1	1
TM601	▲	TAB 42018	1	1	1	1	1	1	1	1	1	1	1	1	1
TM602	▲	TAB 42018	1	1	1	1	1	1	1	1	1	1	1	1	1
TP501		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1	1	1	1	1
TP502		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1	1	1	1	1	1	1	1
TP503		PCB JUMPER D0.6-P15.0	1	1	1	1	1	1	1	1	1	1	1	1	1
TP504		PCB JUMPER D0.6-P15.0	1	1	1	1	1	1	1	1	1	1	1	1	1
VR601	9965 000 13906	CARBON P.O.T. 10K OHM B	1	1	1	1	1	1	1	1	1	1	1	1	1
CRT CBA															
CAPACITORS															
C501		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C502		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C503		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1	1	1	1	1	1	1	1
C504		CERAMIC CAP. B K 1000PF/2KV	1	1	1	1	1	1	1	1	1	1	1	1	1
C505		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1	1	1	1	1	1	1	1
CONNECTORS															
CL501A	9965 000 18126	LEAD WIRE 3P/230	1	1	1	1	1	1	1	1	1	1	1	1	1
CN501	9965 000 13911	PIN CONNECTOR 005P-5100	1	1	1	1	1	1	1	1	1	1	1	1	1
CN502	9965 000 05247	CONNECTOR BASE, 4P TUC-P04P-B1	1	1	1	1	1	1	1	1	1	1	1	1	1
JK501	9965 000 13913	CRT SOCKET ISMS01S	1	1	1	1	1	1	1	1	1	1	1	1	1
L501		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
TRANSISTORS															
Q501	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1	1	1	1	1	1	1	1
Q502	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1	1	1	1	1	1	1	1
Q503	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1	1	1	1	1	1	1	1
RESISTORS															
R501		METAL OXIDE FILM RES. 1W J 18K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R502		METAL OXIDE FILM RES. 1W J 18K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
R503		METAL OXIDE FILM RES. 1W J 18K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R504		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R505		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R506		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R507		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R510		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R511		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R512		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R513		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1	1	1	1	1	1	1	1
R514		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R515		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R516		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R517		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R518		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R519		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R520		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R521		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R522		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
R523		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1	1	1	1	1	1	1	1
TEXT CBA															
CAPACITORS															
C901		ELECTROLYTIC CAP. 22UF/50V M						1	1	1	1	1	1	1	
C902		CERAMIC CAP.(AX) B K 100PF/50V						1	1	1	1	1	1	1	
C903		ELECTROLYTIC CAP. 0.1UF/50V M						1	1	1	1	1	1	1	
C904		ELECTROLYTIC CAP. 0.1UF/50V M						1	1	1	1	1	1	1	
C905		CERAMIC CAP.(AX) Y M 0.01UF/16V						1	1	1	1	1	1	1	
C906		ELECTROLYTIC CAP. 100UF/10V M						1	1	1	1	1	1	1	
C916		CERAMIC CAP.(AX) CH J 18PF/50V						1	1	1	1	1	1	1	
C917		CERAMIC CAP.(AX) CH J 18PF/50V						1	1	1	1	1	1	1	
C920		CERAMIC CAP.(AX) Y M 0.01UF/16V						1	1	1	1	1	1	1	
C921		ELECTROLYTIC CAP. 100UF/10V M						1	1	1	1	1	1	1	
C922		ELECTROLYTIC CAP. 100UF/10V M						1	1	1	1	1	1	1	
C923		ELECTROLYTIC CAP. 100UF/10V M						1	1	1	1	1	1	1	
C926		CERAMIC CAP.(AX) Y M 0.01UF/16V						1	1	1	1	1	1	1	
CONNECTORS															
CN901	9965 000 13916	CONNECTOR, 8P TUC-P08X-B1						1	1	1	1	1	1	1	
CN902	9965 000 13917	CONNECTOR, 6P TUC-P06X-B1						1	1	1	1	1	1	1	
DIODES															
D901	4822 130 32778	SWITCHING DIODE 1SS133(T-77)						1	1	1	1	1	1	1	
D902	4822 130 32778	SWITCHING DIODE 1SS133(T-77)						1	1	1	1	1	1	1	
D903	9965 000 18140	ZENER DIODE MTZJT-773.6B						1	1	1	1	1	1	1	
D904	4822 130 32778	SWITCHING DIODE 1SS133(T-77)						1	1	1	1	1	1	1	
D905	4822 130 32778	SWITCHING DIODE 1SS133(T-77)						1	1	1	1	1	1	1	
D906	4822 130 32778	SWITCHING DIODE 1SS133(T-77)						1	1	1	1	1	1	1	
D907	4822 130 32778	SWITCHING DIODE 1SS133(T-77)						1	1	1	1	1	1	1	
D908	9965 000 18119	ZENER DIODE DZ-3.3BSBT265						1	1	1	1	1	1	1	
D909	9965 000 18119	ZENER DIODE DZ-3.3BSBT265						1	1	1	1	1	1	1	
IC's															
IC901	9965 000 18141	IC:TEXT SAA5265						1	1	1	1	1	1	1	
COILS															
L901	9965 000 18142	INDUCTOR 10UH-J-26T						1	1	1	1	1	1	1	
L902	9965 000 18142	INDUCTOR 10UH-J-26T						1	1	1	1	1	1	1	
TRANSISTORS															
Q901	9965 000 05643	TRANSISTOR 2SC2785(F)						1	1	1	1	1	1	1	
Q901		TRANSISTOR 2SC2785(H)						1	1	1	1	1	1	1	
Q901		TRANSISTOR 2SC2785(J)						1	1	1	1	1	1	1	
Q901		TRANSISTOR KTC3199(GR)						1	1	1	1	1	1	1	


ELECTRICAL PARTS LIST			14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	12 NC	Description													
Q901		TRANSISTOR KTC3198(GR)						1	1	1	1	1	1	1	
Q901		TRANSISTOR 2SC1815-GR(TPE2)						1	1	1	1	1	1	1	
RESISTORS															
R901		CARBON RES. 1/4W J 2.2K OHM						1	1	1	1	1	1	1	
R902		CARBON RES. 1/4W J 1K OHM						1	1	1	1	1	1	1	
R903		CARBON RES. 1/4W J 24K OHM						1	1	1	1	1	1	1	
R904		CARBON RES. 1/4W J 10K OHM						1	1	1	1	1	1	1	
R905		CARBON RES. 1/4W J 10K OHM						1	1	1	1	1	1	1	
R906		CARBON RES. 1/4W J 1.5K OHM						1	1	1	1	1	1	1	
R908		CARBON RES. 1/4W J 1.5K OHM						1	1	1	1	1	1	1	
R911		CARBON RES. 1/4W J 1.5K OHM						1	1	1	1				
R912		CARBON RES. 1/4W J 1K OHM						1	1	1	1				
R913		PCB JUMPER D0.6-P5.0						1	1	1	1				
R914		PCB JUMPER D0.6-P5.0						1	1	1	1				
R915		PCB JUMPER D0.6-P5.0						1	1	1	1				
R916		CARBON RES. 1/4W J 220 OHM						1	1	1	1				
R918		METAL OXIDE FILM RES. 2W J 56 OHM						1	1	1	1				
R919		PCB JUMPER D0.6-P5.0						1	1	1	1				
R920		PCB JUMPER D0.6-P5.0						1	1	1	1				
R921		CARBON RES. 1/4W J 3.3K OHM						1	1	1	1				
R922		CARBON RES. 1/4W J 3.3K OHM						1	1	1	1				
R923		CARBON RES. 1/4W J 3.3K OHM						1	1	1	1				
R924		CARBON RES. 1/4W J 1K OHM						1	1	1	1				
R925		CARBON RES. 1/4W J 10 OHM						1	1	1	1				
R926		CARBON RES. 1/4W J 4.7K OHM						1	1	1	1				
R927		CARBON RES. 1/4W J 1K OHM						1	1	1	1				
X901	9965 000 12194	X'TAL 12.000MHZ						1	1	1	1				

**PRODUCT SAFETY NOTE:** Products marked with a 

have special characteristics important to safety.  
Before replacing any of these components, read carefully  
the product safety notice in this service manual.  
Don't degrade the safety of the product through improper

**\*)Note:**

Pos.1 consists of      A1-1                      A1-8  
                                 A1-3                      A1-9  
                                 A1-4                      A1-10  
                                 A1-5                      L7  
                                 A1-7

MECHANICAL PARTS LIST					14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	Pos. Expl. View		12 NC	Description													
0001	*)		3143 027 60281	FRONT ASSY 14PV120/07	1												
0001	*)		3143 027 60291	FRONT ASSY 14PV125/01/07/58		1	1		1								
0001	*)		3143 027 60301	FRONT ASSY 14PV125/39				1									
0001	*)		3143 027 60041	FRONT ASSY 14PV203/01/07/58						1	1		1				
0001	*)		3143 027 60311	FRONT ASSY 14PV225/39								1					
0001	*)		3143 027 60201	FRONT ASSY 14PV422/01/07/58										1	1		1
0001	*)		3143 027 60211	FRONT ASSY 14PV422/39												1	
0001	A1-1			FRONT CAB (A) BL 80007	1												
0001	A1-1			FRONT CAB (A) GR PH001		1	1	1	1	1	1	1	1				
0001	A1-1			FRONT CAB PH01 LIGHT GREY										1	1	1	1
0011	A1-3			WORDMARK 14" 17" PLASTIC	1												
0011	A1-3			WORDMARK PHILIPS										1	1	1	1
0011	A1-3			WORDMARK PHILIPS		1	1	1	1	1	1	1	1				
0005	A1-4			CASS. DOOR PH01 LIGHT GREY										1	1	1	1
0005	A1-4			CASS. DOOR (A) BL 80007	1												
0005	A1-4			CASS. DOOR (A) GR PH001		1	1	1	1	1	1	1	1				
0006	A1-5			LEG SPRING	1	1	1	1	1	1	1	1	1	1	1	1	1
0007	A1-8			LED LENS A (C)	1	1	1	1	1	1	1	1	1				
0007	A1-8			LED LENS B (C)										1	1	1	1
0008	A1-9			LED LENS A (R)	1	1	1	1	1	1	1	1	1				
0008	A1-9			LED LENS B (R)										1	1	1	1
0010	L7		4822 502 14109	SCR PAN TORX TAP ST ZN BK 3X10	1	1	1	1	1	1	1	1	1	1	1	1	1
0009				FUNC. KNOB (A) BL 80007	1												
0009				FUNC. KNOB (A) GR PH001		1	1	1	1	1	1	1	1				
0009				FUNC. KNOB PH01 LIGHT GREY										1	1	1	1
0005	A1-7		3143 027 50371	FUNC. KNOB "A" BLACK	1												
0005	A1-7		3143 027 50381	FUNC. KNOB "A" SILVER SHADOW		1	1	1	1	1	1	1	1				
0005	A1-7		3143 027 50401	FUNC. KNOB "B" SILVER SHADOW										1	1	1	1
0031	B15		3143 021 20021	TE HOLDER						1	1	1	1				
0055	L1		4822 502 14062	SCREW	1	1	1	1	1	1	1	1	1	1	1	1	1
0056	L2			TORX HEAD TAPPING SCREW M4X12	1	1	1	1	1	1	1	1	1	1	1	1	1
0059	TL1		4822 502 14109	SCR PAN TORX TAP ST ZN BK 3X10						1	1	1	1				
0070	A2		3143 027 50131	REAR CAB PH001		1	1	1	1	1	1	1	1	1	1	1	1
0070	A2		3143 027 50141	REAR CAB PH004	1												
0071	A12		3143 027 50191	POWER BUTTON PH001		1	1	1	1	1	1	1	1	1	1	1	1

MECHANICAL PARTS LIST					14PV120/07	14PV125/01	14PV125/07	14PV125/39	14PV125/58	14PV225/01	14PV225/07	14PV225/39	14PV225/58	14PV422/01	14PV422/07	14PV422/39	14PV422/58
Pos.	Pos. Expl. View	▲	12 NC	Description													
0071	A12		3143 027 50201	POWER BUTTON PH004	1												
1010	SP151		9965 000 18085	SPEAKER ASSY	1	1	1	1	1	1	1	1	1	1	1	1	1
0002	B4		4822 402 10174	BRACKET ==>14"	1	1	1	1	1	1	1	1	1	1	1	1	1
0004	B1		3143 021 20031	TENSION SPRING	1	1	1	1	1	1	1	1	1	1	1	1	1
0030	B3		3143 021 20011	SCREENING	1	1	1	1	1	1	1	1	1	1	1	1	1
0015			3143 027 50351	CABLE CLAMP	1	1	1	1	1	1	1	1	1	1	1	1	1
0054	B2			SCREW ==>CRT	1	1	1	1	1	1	1	1	1	1	1	1	1
0057	L8			FLAT HEAD SCREW 4X18	1	1	1	1	1	1	1	1	1	1	1	1	1
0058	TL1			SHIELD PLATE SCREW M3X4	1	1	1	1	1	1	1	1	1	1	1	1	1
1100				CRT A34EAC01X71	1	1	1	1	1	1	1	1	1	1	1	1	1
1B1				DECK ASSEMBLY	1	1	1	1	1	1	1	1	1	1	1	1	1
TB1				TRAY CHASSIS T6400RA	1	1	1	1	1	1	1	1	1	1	1	1	1
TB2				TOP COVER T6300RA	1	1	1	1	1	1	1	1	1	1	1	1	1
TB10			9965 000 18086	RCA HOLDER T6400RA	1	1	1	1	1	1	1	1	1	1	1	1	1
TB23				BOTTOM PLATE T6300RA	1	1	1	1	1	1	1	1	1	1	1	1	1
TL1			9965 000 08646	SCREW, P-TIGHT 3X12 WASHER HEAD+	1	1	1	1	1	1	1	1	1	1	1	1	1
TL14			9965 000 12171	SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1	1	1	1	1	1	1
TL18			9965 000 13027	SCREW, P-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1	1	1	1	1	1	1	1
				PACKING													
0450	S1			BOX FOLDED 14PV120	1												
0450	S1			BOX FOLDED 14PV125		1	1	1	1								
0450	S1			BOX FOLDED 14PV22X						1	1	1	1				
0450	S1			BOX FOLDED 14PV42X										1	1	1	1
0453	S2			STYROFOAM TOP A	1	1	1	1	1	1	1	1	1				
0453	S2			STYROFOAM TOP B										1	1	1	1
0454	S2			STYROFOAM BOTTOM A	1	1	1	1	1	1	1	1	1				
0454	S2			STYROFOAM BOTTOM B										1	1	1	1
0455	X1			BAG (==>MAINS CORD)	1	1	1	1	1	1	1	1	1	1	1	1	1
0469	S6			TOPFOIL	1	1	1	1	1	1	1	1	1	1	1	1	1
0471				STRETCHFOIL 500/15	1	1	1	1	1	1	1	1	1	1	1	1	1
0150	X3		9965 000 18084	RC RT350/101	1												
0150	X3		9965 000 18138	RC RT350/111		1	1	1	1					1	1	1	1
0150	X3		9965 000 18139	RC RT351/111						1	1	1	1				
				TEST TAPES													
0001			3143 023 20011	TEST TAPE FL6K(S)	1	1	1	1	1	1	1	1	1	1	1	1	1
0002			3143 023 20021	TEST TAPE FL6NS8	1	1	1	1	1	1	1	1	1	1	1	1	1
0003			3143 023 20031	TEST TAPE FSLT-120	1	1	1	1	1	1	1	1	1	1	1	1	1
0004			3143 023 20041	TEST TAPE FL6M	1	1	1	1	1	1	1	1	1	1	1	1	1

# STANDARD MAINTENANCE

[ 14PV120/07, 14PV125/ ( 01, 07, 39, 58 ), 14PV225/ ( 01, 07, 39, 58 ), 14PV422/ ( 01, 07, 39, 58 ), 14PV425/07 ]

## Service Schedule of Components

H: Hours    ○: Check    ●: Change

Deck		Periodic Service Schedule			
Ref.No.	Part Name	1,000 H	2,000 H	3,000 H	4,000 H
B2	Cylinder Assembly	○	●	○	●
B3	Loading Motor Assembly			●	
B8	Pulley Assembly		●		●
B587	Tension Lever Assembly		●		●
B31	AC Head Assembly			●	
B573,B574	Reel (SP)(D2), Reel (TU)(D2)			●	
B37	Capstan Motor		●		●
B52	Cap Belt		●		●
B73	FE Head			●	
B133,B134	Idler Gear, Idler Arm		●		●
B410	Pinch Arm Assembly		●		●
B414	M Brake (SP) Assembly		●		●
B416	M Brake (TU) Assembly		●		●
B525	LDG Belt		●		●
B569	Cam Holder (F)		●		●

### Notes:

- 1.Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / Audio Control Head / Full Erase Head) using 90% Isopropyl Alcohol.
- 2.After cleaning the parts, do all DECK ADJUSTMENTS.
- 3.For the reference numbers listed above, refer to Deck Exploded Views.

## Cleaning

### Cleaning of Video Head

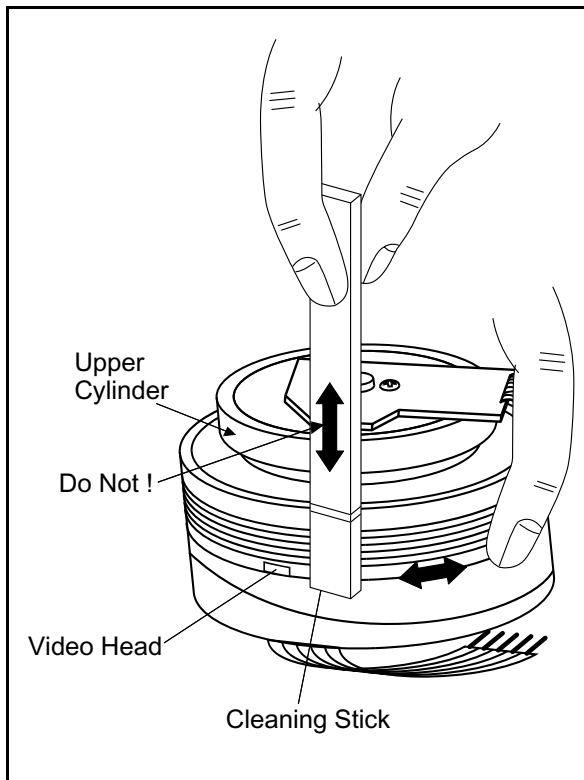
Clean the head with a head cleaning stick or chamois cloth.

#### Procedure

1. Remove the top cabinet.
2. Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
3. Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

#### Notes:

1. The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit.
3. Do not reuse a stained head cleaning stick or a stained chamois cloth.



### Cleaning of Audio Control Head

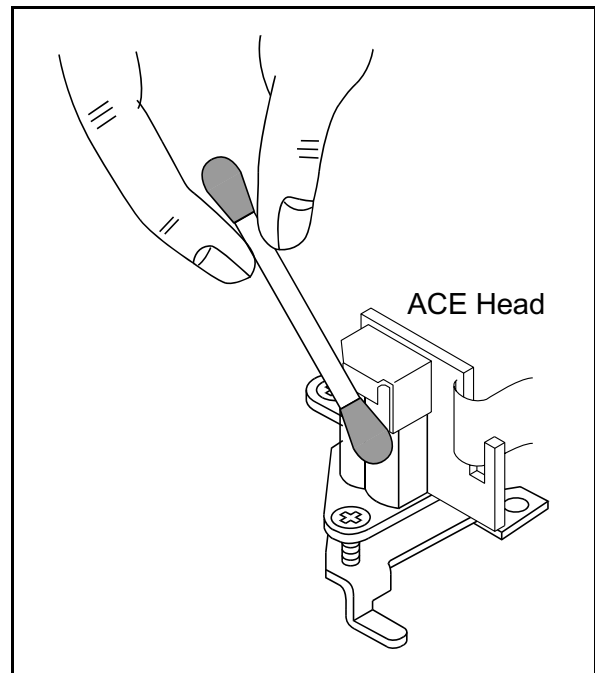
Clean the head with a cotton swab.

#### Procedure

1. Remove the top cabinet.
2. Dip the cotton swab in 90% isopropyl alcohol and clean the audio control head. Be careful not to damage the upper drum and other tape running parts.

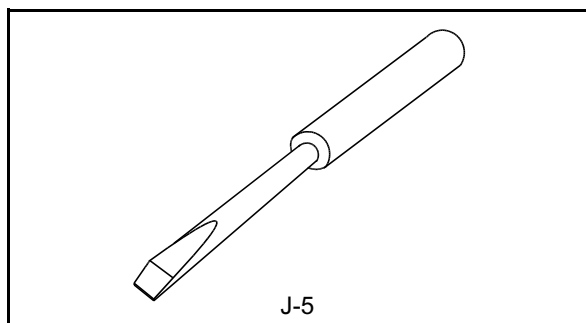
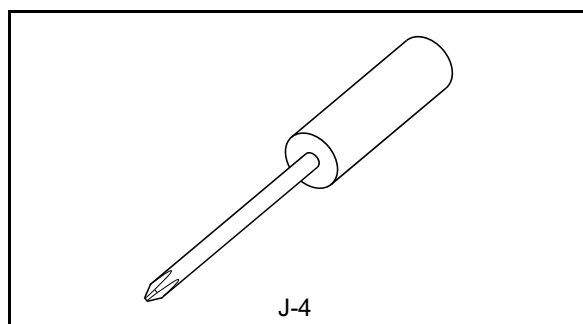
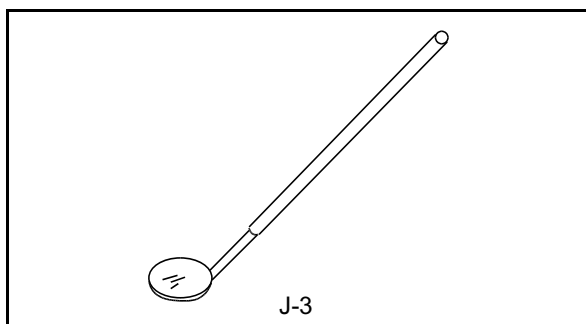
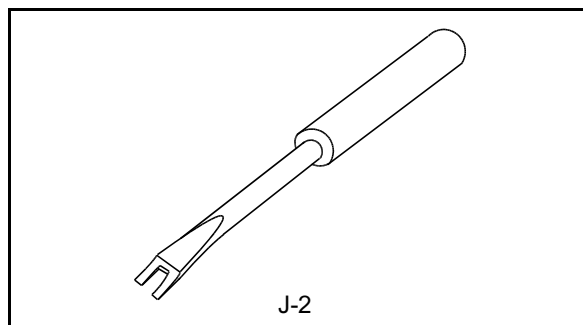
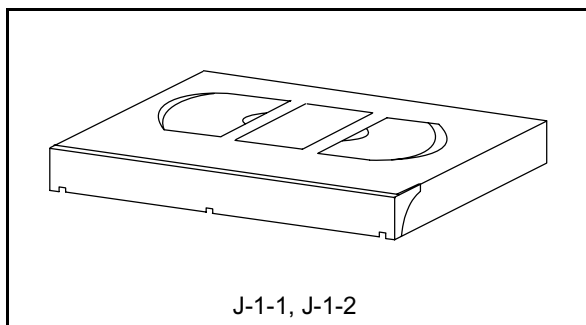
#### Notes:

1. Avoid cleaning the audio control head vertically.
2. Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.



## SERVICE FIXTURE AND TOOLS

[ 14PV120/07, 14PV125/ ( 01, 07, 39, 58 ), 14PV225/ ( 01, 07, 39, 58 ),  
14PV422/ ( 01, 07, 39, 58 ), 14PV425/07 ]



Ref. No.	Name	Part No.	Adjustment
J-1-1	Alignment Tape	FL6A	Electrical Adjustments
J-1-2	Alignment Tape	FL6N8 (2 Head model) FL6NS8 (4 Head model)	Azimuth and X Value Adjustment of Audio Control Head / Adjustment of Envelope Waveform
J-2	Guide Roller Adj.Screwdriver	Available Locally	Guide Roller
J-3	Mirror	Available Locally	Tape Transportation Check
J-4	Azimuth Adj.Screwdriver +	Available Locally	A/C Head Height
J-5	X Value Adj.Screwdriver -	Available Locally	X Value

# MECHANICAL ALIGNMENT PROCEDURES

[ 14PV120/07, 14PV125/ ( 01, 07, 39, 58 ), 14PV225/ ( 01, 07, 39, 58 ), 14PV422/ ( 01, 07, 39, 58 ), 14PV425/07 ]

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit.

## Service Information

### A. Method for Manual Tape Loading/Unloading

To load a cassette tape manually:

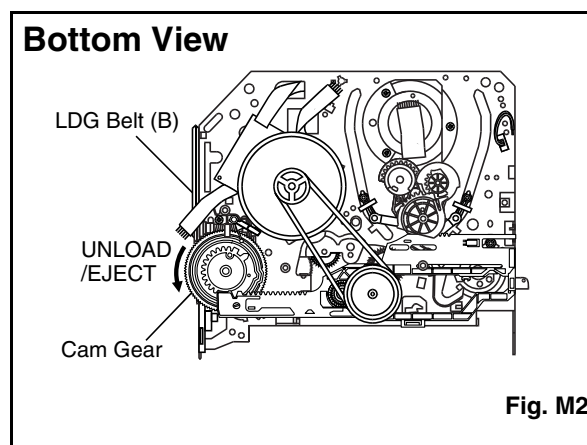
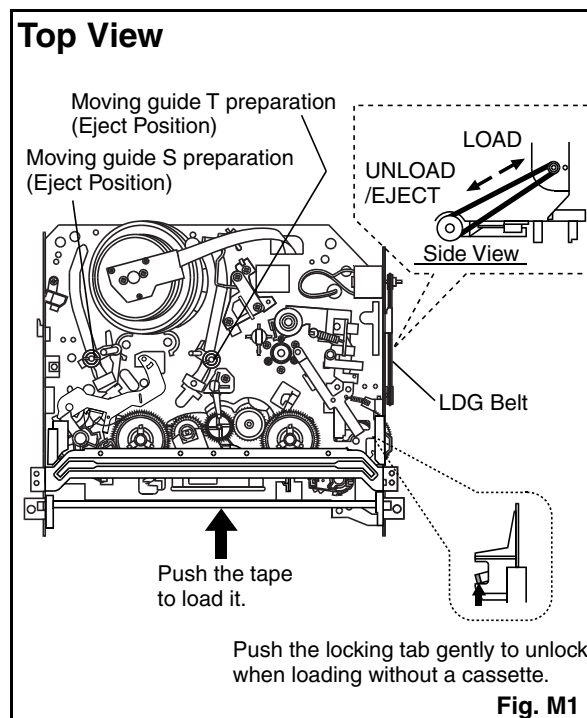
1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 for a minute or two to complete this task.

To unload a cassette tape manually:

1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Make sure that the Moving guide preparations are in the Eject Position.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 until the Moving guide preparations come to the Eject Position. Stop turning when the preparations begin clicking or can not be moved further. However, the tape will be left wound around the cylinder.
5. Turn the LDG Belt in the appropriate direction continuously, and the cassette tape will be ejected. Allow a minute or two to complete this task.

### B. Method to place the Cassette Holder in the tape-loaded position without a cassette tape

1. Disconnect the AC Plug.
2. Remove the Top Case and Front Assembly.
3. Turn the LDG Belt in the appropriate direction shown in Fig. M1. Release the locking tabs shown in Fig. M1 and continue turning the LDG Belt until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.



## 1. Tape Interchangeability Alignment

Note:

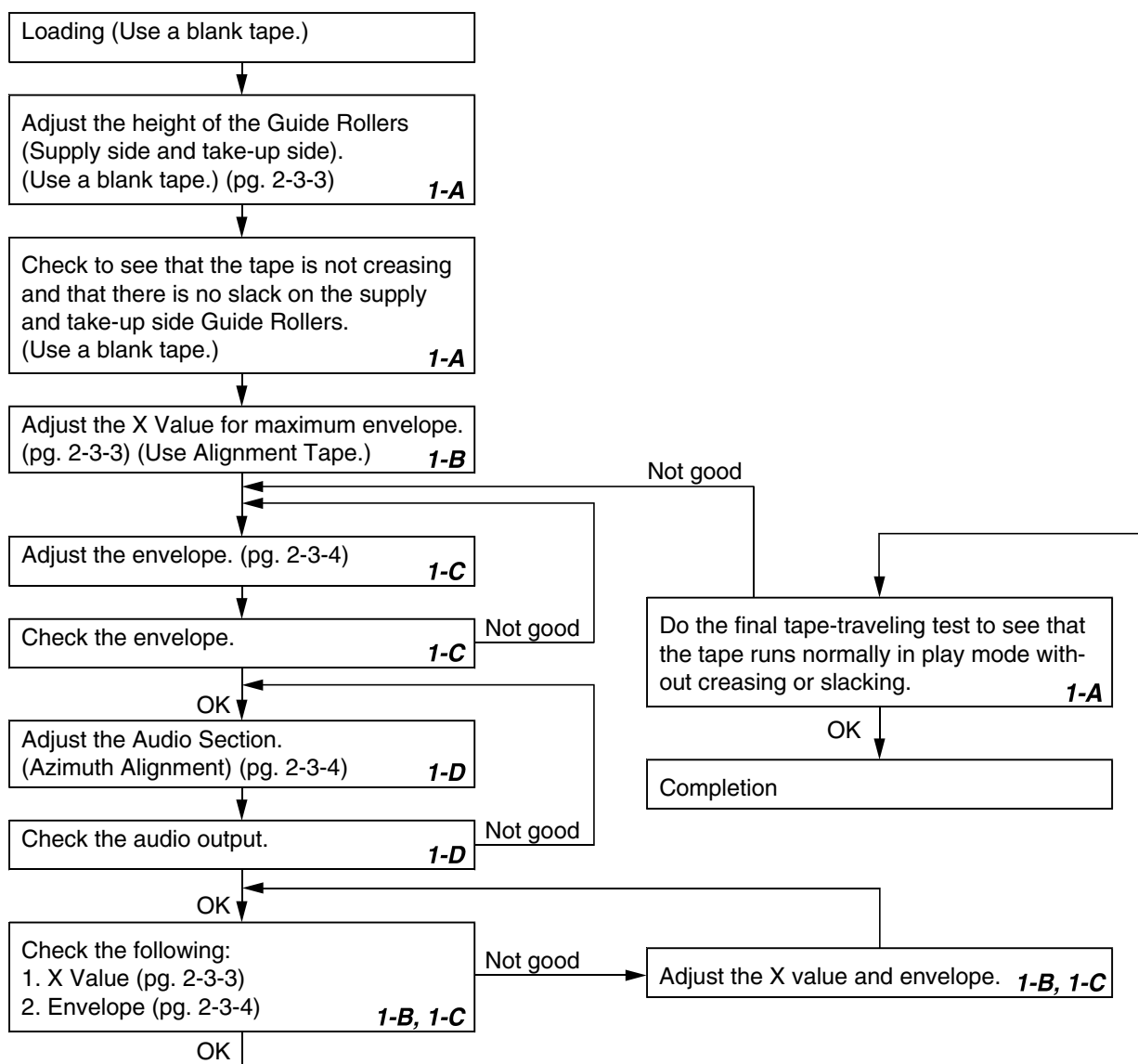
To do these alignment procedures, make sure that the Tracking Control Circuit is set to the center position every time a tape is loaded or unloaded. (Refer to page 2-3-8, procedure 1-C, step 2.)

### Equipment required:

- Dual Trace Oscilloscope
- VHS Alignment Tape (FL6N8)
- Guide Roller Adj. Screwdriver
- X-Value Adj. Screwdriver

Note: Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.

### Flowchart of Alignment for tape traveling



## 1-A. Preliminary/Final Checking and Alignment of Tape Path

### Purpose:

To make sure that the tape path is well stabilized.

### Symptom of Misalignment:

If the tape path is unstable, the tape will be damaged.

**Note:** Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

1. Playback a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig. M3 and M4.)
2. If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)

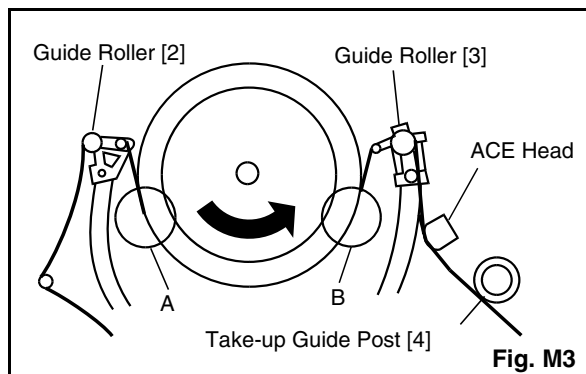


Fig. M3

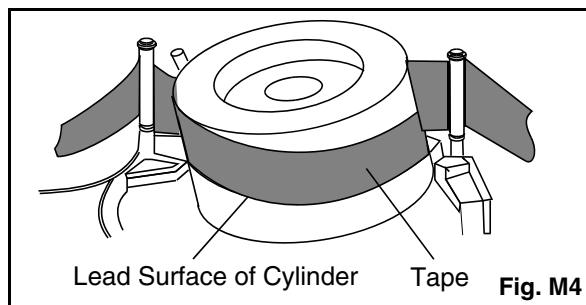


Fig. M4

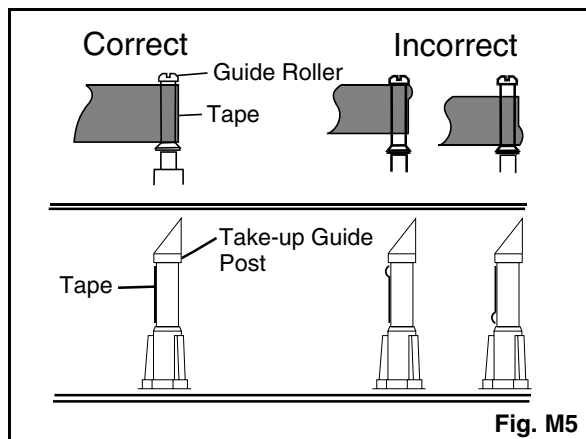


Fig. M5

3. Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and AC Head. (Fig. M3 and M5)
4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the AC Head. (Fig. M6)

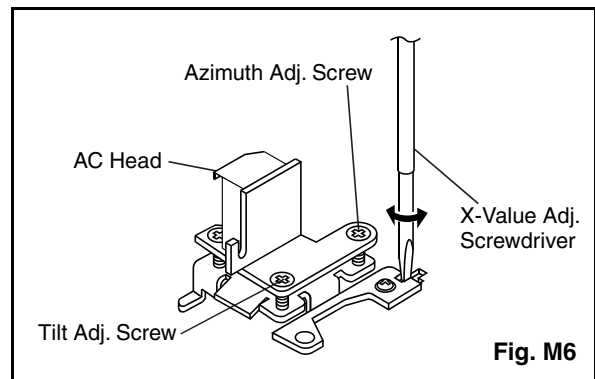


Fig. M6

## 1-B. X Value Alignment

### Purpose:

To align the Horizontal Position of the Audio/Control/Erase Head.

### Symptom of Misalignment:

If the Horizontal Position of the Audio/Control/Erase Head is not properly aligned, maximum envelope cannot be obtained at the Neutral position of the Tracking Control Circuit.

1. Connect the oscilloscope to TP008 (C-PB) and TP001 (CTL) on the Main CBA. Use TP002 (RF-SW) as a trigger.
2. Playback the Gray Scale of the Alignment Tape (FL6N8) and confirm that the PB FM signal is present.
3. Set the Tracking Control Circuit to the center position by pressing CH UP button then "PLAY" button on the unit. (Refer to note on bottom of page 2-3-8.)
4. Use the X-Value Adj. Screwdriver so that the PB FM signal at TP008 (C-PB) is maximum. (Fig. M6)
5. Press CH UP button on the unit until the CTL waveform has shifted by approx. +2msec. Make sure that the envelope is simply attenuated (shrinks in height) during this process so that you will know the envelope has been at its peak.

- Press CH DOWN button on the unit until the CTL waveform has shifted from its original position (not the position achieved in step 5, but the position of CTL waveform in step 4) by approximately -2msec. Make sure that the envelope is simply attenuated (shrinks in height) once CTL waveform passes its original position and is further brought in the minus direction.
- Set the Tracking Control Circuit to the center position by pressing CH UP button and then "PLAY" button.

### 1-C. Checking/Adjustment of Envelope Waveform

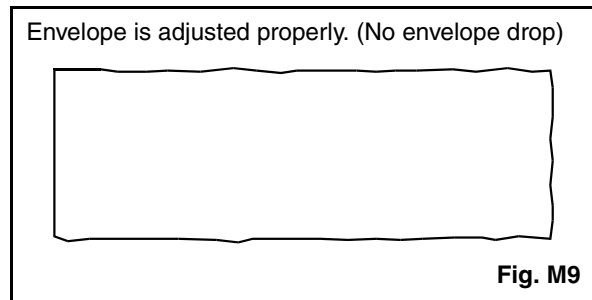
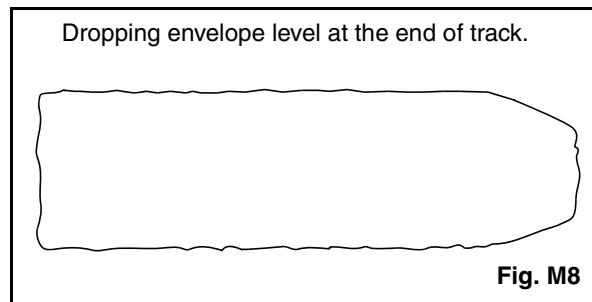
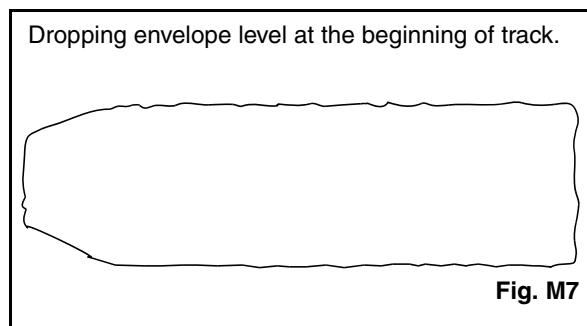
#### Purpose:

To achieve a satisfactory picture and precise tracking.

#### Symptom of Misalignment:

If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

- Connect the oscilloscope to TP008 (C-PB) on the Main CBA. Use TP002 (RF-SW) as a trigger.
- Playback the Gray Scale on the Alignment Tape (FL6N8). Set the Tracking Control Circuit to the center position by pressing CH UP button and then "PLAY" button on the unit. Adjust the height of Guide Rollers [2] and [3] (Fig. M3, Page 2-3-7) watching the oscilloscope display so that the envelope becomes as flat as possible. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
- If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- When Guide Rollers [2] and [3] (Refer to Fig. M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.



Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure center position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the "X Value Alignment."

### 1-D. Azimuth Alignment of Audio/Control/ Erase Head

#### Purpose:

To correct the Azimuth alignment so that the Audio/Control/Erase Head meets tape tracks properly.

#### Symptom of Misalignment:

If the position of the Audio/Control/Erase Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

- Connect the oscilloscope to the audio output jack on the rear side of the deck.
- Playback the alignment tape (FL6N8) and confirm that the audio signal output level is 6kHz.
- Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform on the oscilloscope is at maximum. (Fig. M6)

## DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

**[ 14PV120/07, 14PV125/ ( 01, 07, 39, 58 ), 14PV225/ ( 01, 07, 39, 58 ),  
14PV422/ ( 01, 07, 39, 58 ), 14PV425/07 ]**

Before following the procedures described below, be sure to remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS.)

All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [41] and [42] in Fig.DM1 on page 2-4-11. When reassembling, follow the steps in reverse order.

STEP /LOC. No.	START- ING No.	PART		REMOVAL		INSTALLATION
				Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[1]	[1]	Guide Holder A	T	DM3	2(S-1)	
[2]	[1]	Cassette Holder Assembly	T	DM4		
[3]	[2]	Slider (SP)	T	DM5	*(L-1)	
[4]	[2]	Slider (TU)	T	DM5	*(L-2)	
[5]	[4]	Lock Lever	T	DM5	*(L-3),*(P-1)	
[6]	[2]	Cassette Plate	T	DM5		
[7]	[7]	Cylinder Assembly	T	DM1,DM6	Desolder, 3(S-2)	
[8]	[8]	Loading Motor Assembly	T	DM1,DM7	Desolder, LDG Belt, 2(S-3)	
[9]	[9]	AC Head Assembly	T	DM1,DM7	(S-4)	
[10]	[2]	Tape Guide Arm Assembly	T	DM1,DM8	*(P-2)	
[11]	[10]	C Door Opener	T	DM1,DM8	*(L-4)	
[12]	[11]	Pinch Arm (B)	T	DM1,DM8	*(P-3)	
[13]	[12]	Pinch Arm Assembly	T	DM1,DM8		
[14]	[14]	FE Head Assembly	T	DM1,DM9	(S-5)	
[15]	[15]	Prism	T	DM1,DM9	(S-6)	
[16]	[2],[15]	Sensor Gear	T	DM1,DM15		
[17]	[2]	Slider Shaft	T	DM10	*(L-5)	
[18]	[17]	C Drive Lever (SP)	T	DM10		
[19]	[17]	C Drive Lever (TU)	T	DM10	(S-7),*(P-4)	
[20]	[7],[8], [10]	Capstan Motor	B	DM2,DM11	3(S-8), Cap Belt	
[21]	[21]	Clutch Assembly	B	DM2,DM12	(C-1)	
[22]	[22]	Cam Holder (F)	B	DM2,DM12	*(L-6)	
[23]	[23]	Cam Gear (B)	B	DM2,DM12	(C-4), *(P-5)	
[24]	[24]	Mode Gear	B	DM2,DM13	(C-2)	
[25]	[21],[23], [24]	Mode Lever	B	DM2,DM13	(C-3), *(L-8)	
[26]	[22]	Worm Holder	B	DM2,DM13	(S-9),*(L-9),*(L-10)	
[27]	[26]	Pulley Assembly	B	DM2,DM13		
[28]	[25],[26]	Cam Gear (A)	B	DM2,DM13		
[29]	[25]	Idler Gear	B	DM1,DM14		
[30]	[29]	Idler Arm	B	DM1,DM14	*(L-11)	

STEP /LOC. No.	START- ING No.	PART		REMOVAL		INSTALLATION
				Fig. No.	REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[31]	[25]	BT Arm	B	DM2,DM14	*(P-6)	
[32]	[25]	Loading Arm (SP) Assembly	B	DM2,DM14		(+)Refer to Alignment Sec.Pg.2-4-17
[33]	[32]	Loading Arm (TU) Assembly	B	DM2,DM14		(+)Refer to Alignment Sec.Pg.2-4-17
[34]	[2],[25]	M Brake (TU) Assembly	T	DM1,DM15	*(P-7), Brake Belt	
[35]	[2],[25]	M Brake (SP) Assembly	T	DM1,DM15	*(P-8)	
[36]	[35]	Tension Lever Assembly	T	DM1,DM15		
[37]	[36]	T Lever Holder	T	DM15	*(L-12)	
[38]	[34]	Reel (TU)(D2)	T	DM1,DM15		
[39]	[38]	M Gear	T	DM1,DM15		
[40]	[36]	Reel (SP)(D2)	T	DM1,DM15		
[41]	[32],[36]	Moving Guide S Preparation	T	DM1,DM16		
[42]	[33]	Moving Guide T Preparation	T	DM1,DM16		
[43]	[19]	TG Post Assembly	T	DM1,DM16	*(L-13)	
[44]	[28]	Rack Assembly	R	DM17		(+)Refer to Alignment Sec.Pg.2-4-17
[45]	[44]	F Door Opener	R	DM17	*(P-9)	
[46]	[46]	Cleaner Assembly	T	DM1,DM6		
[47]	[46]	CL Post	T	DM6	*(L-14)	
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)	↓ (6)	↓ (7)

(1): Follow steps in sequence. When reassembling, follow the steps in reverse order.

These numbers are also used as identification (location) No. of parts in the figures.

(2): Indicates the part to start disassembling with in order to disassemble the part in column (1).

(3): Name of the part

(4): Location of the part: T=Top B=Bottom R=Right L=Left

(5): Figure Number

(6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

P=Spring, W=Washer, C=Cut Washer, S=Screw, \*=Unhook, Unlock, Release, Unplug, or Desolder

e.g., 2(L-2) = two Locking Tabs (L-2).

(7): Adjustment Information for Installation

(+):Refer to Deck Exploded Views for lubrication.

## Top View

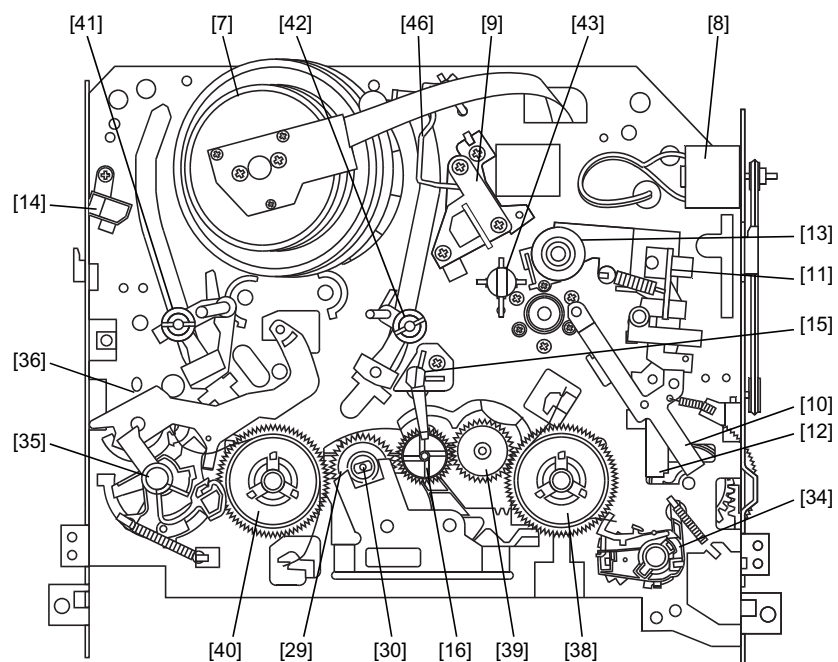


Fig. DM1

## Bottom View

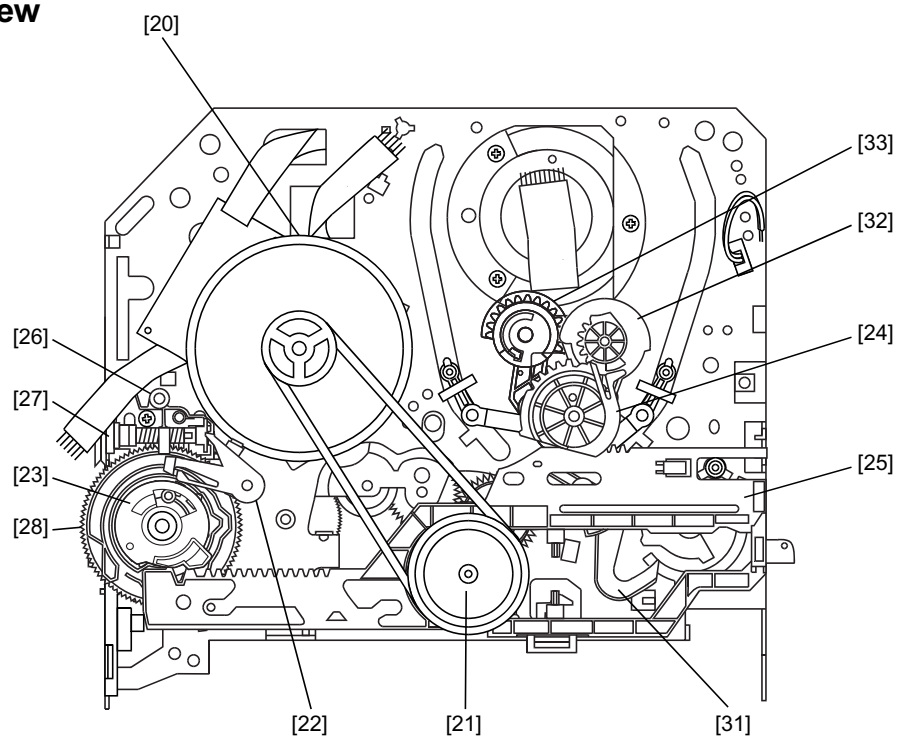
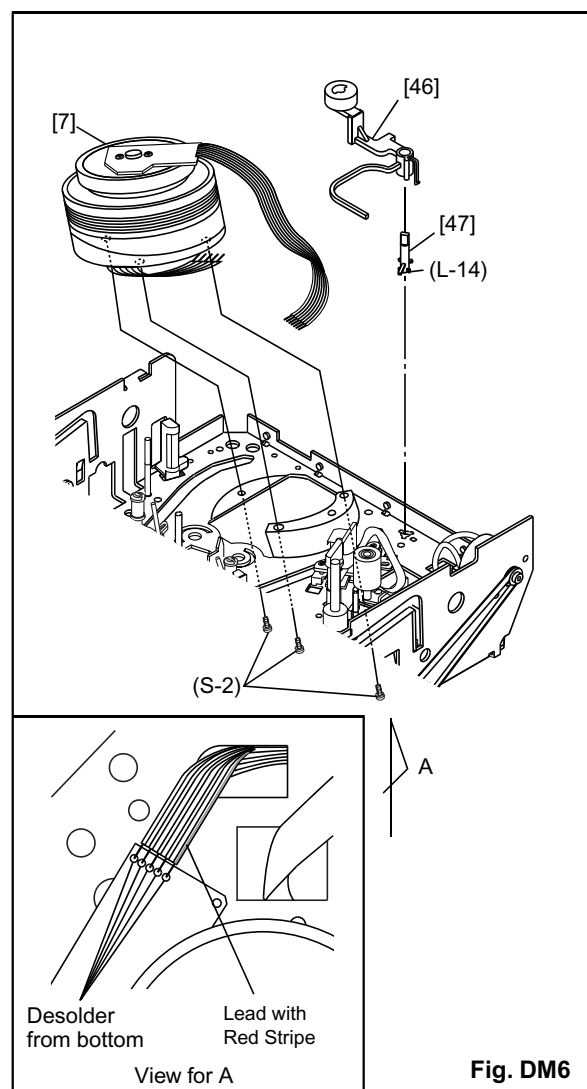
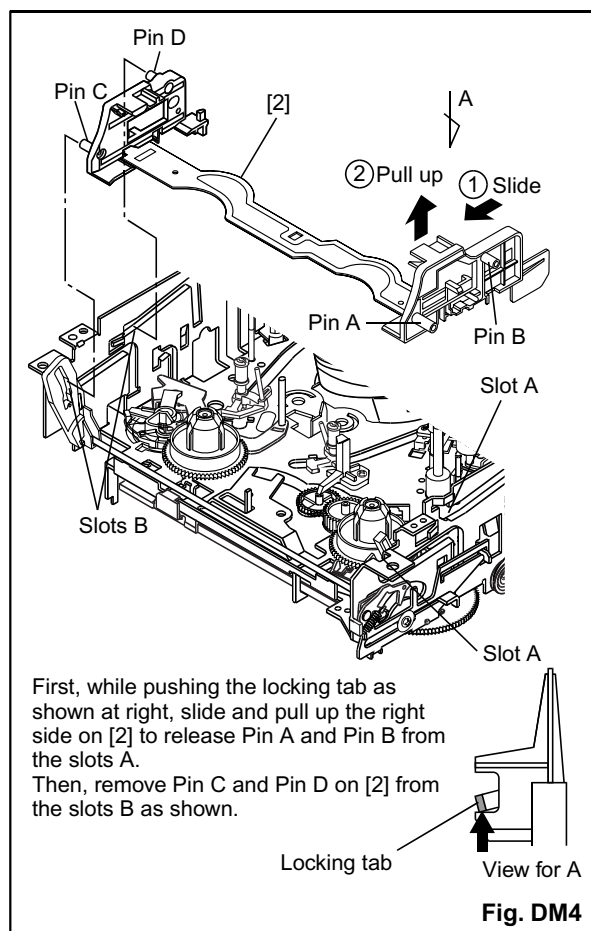
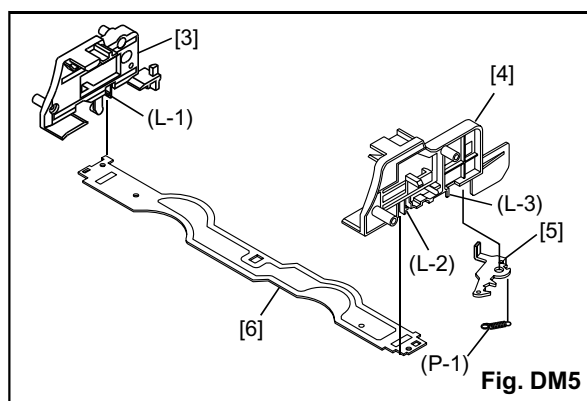
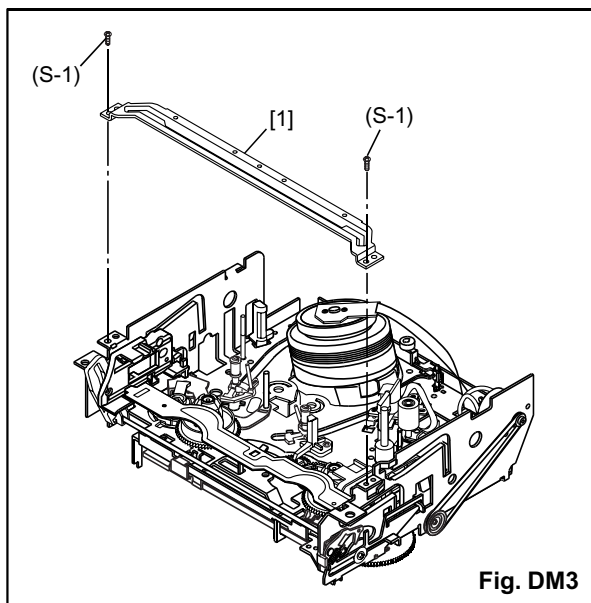
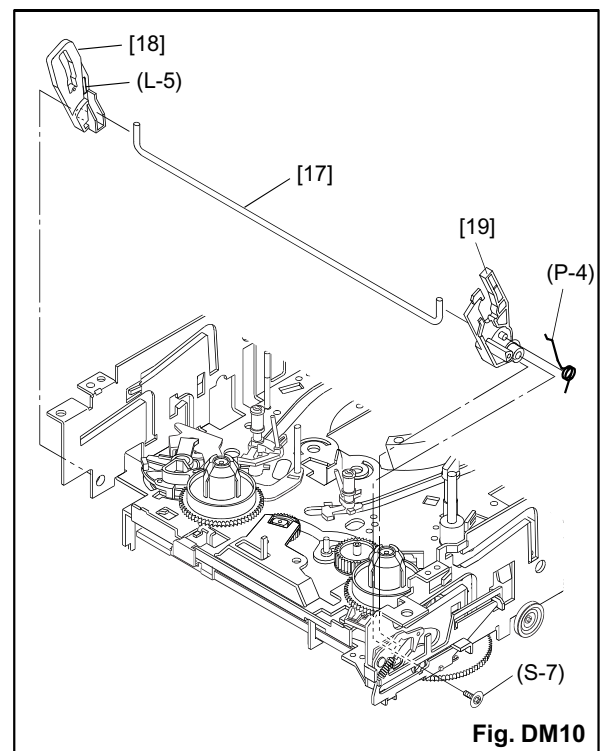
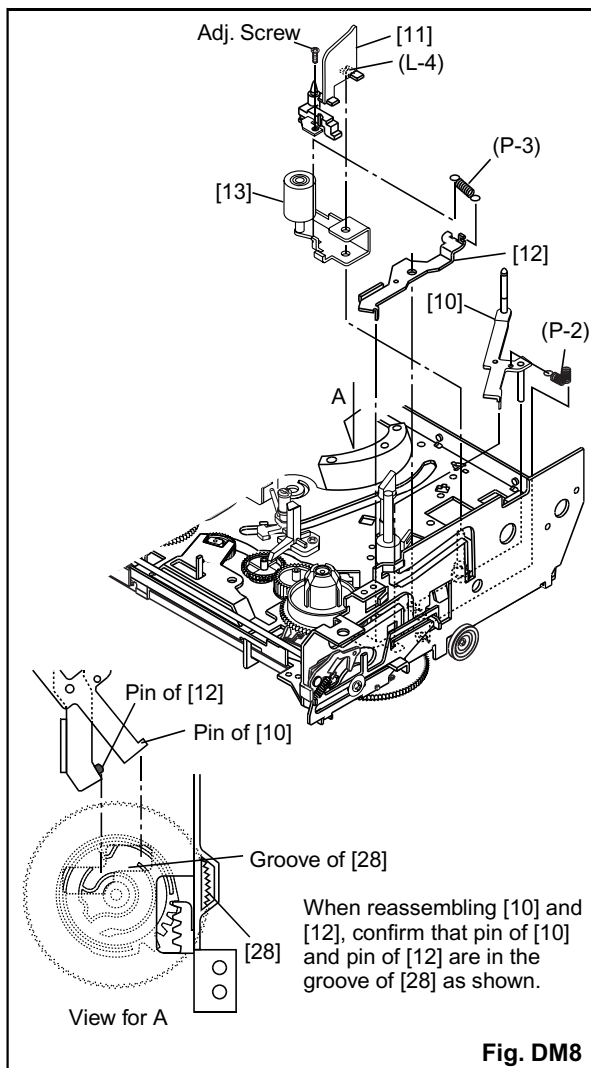
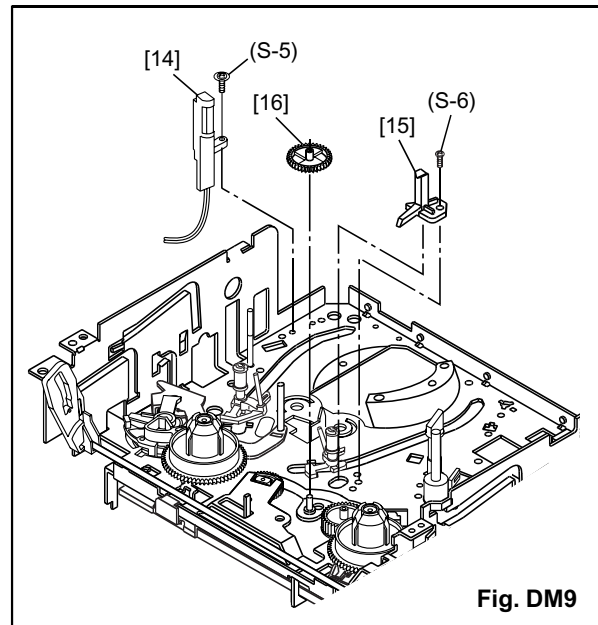
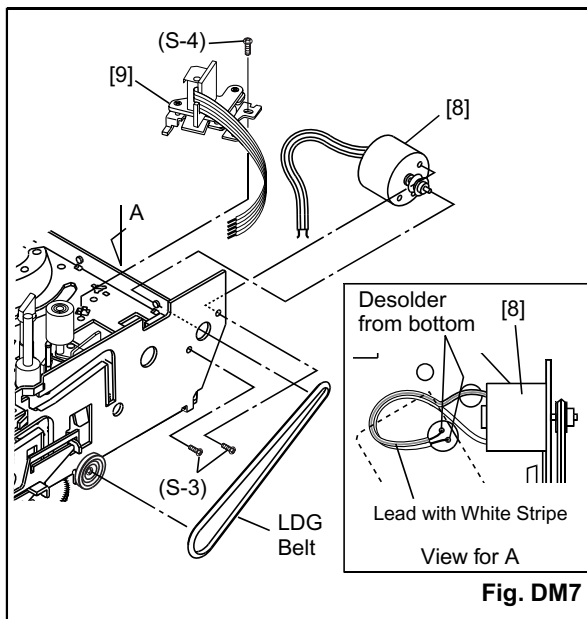
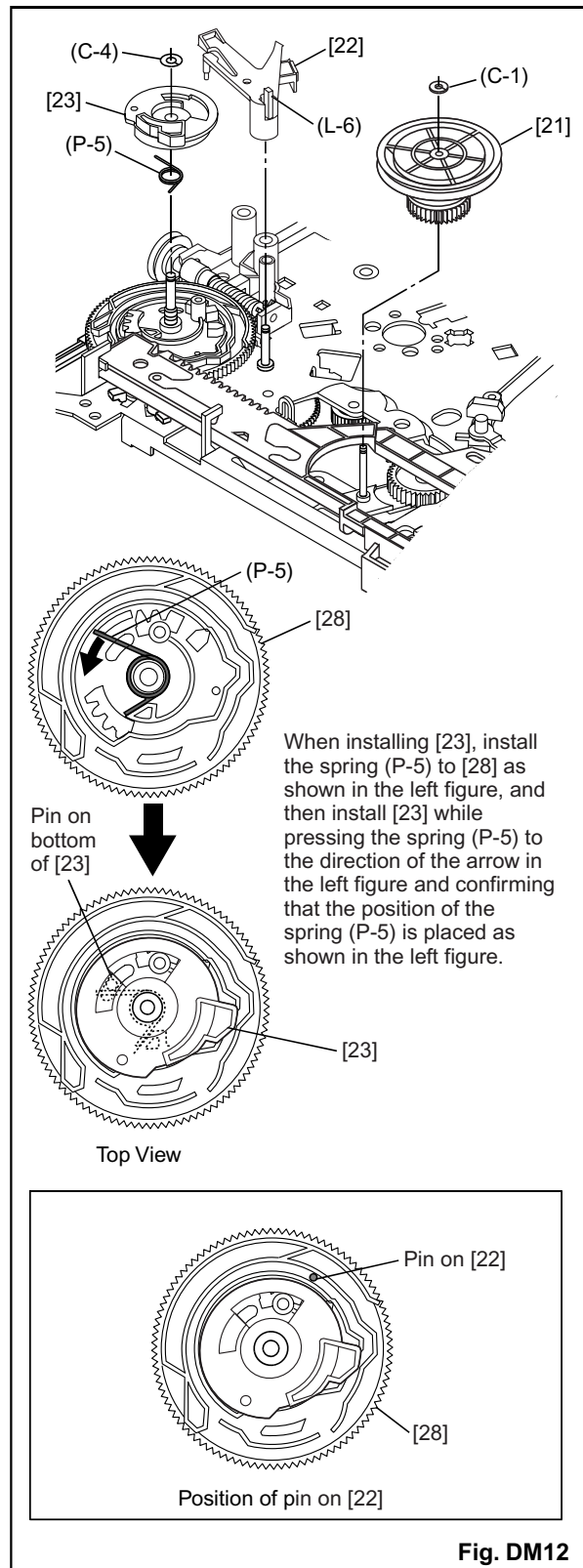
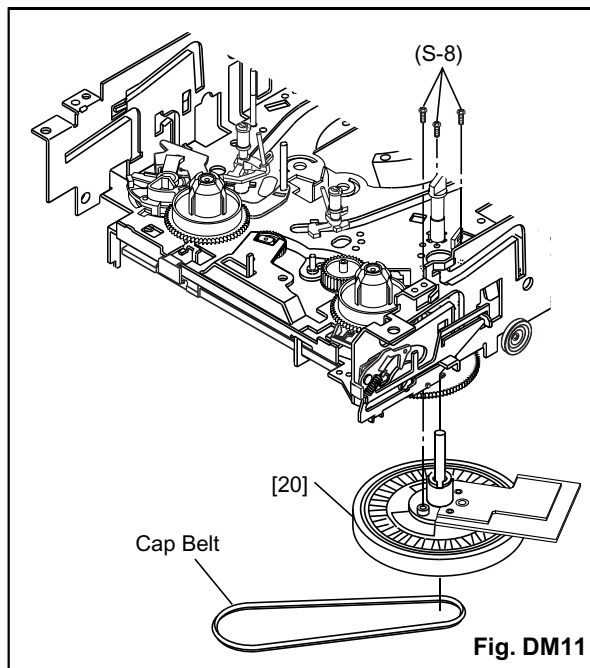
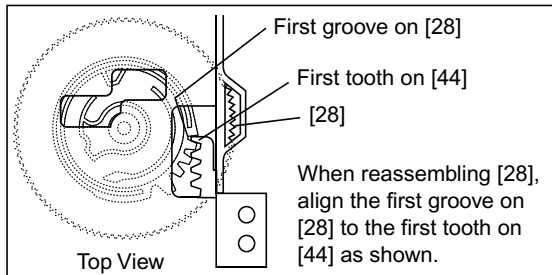
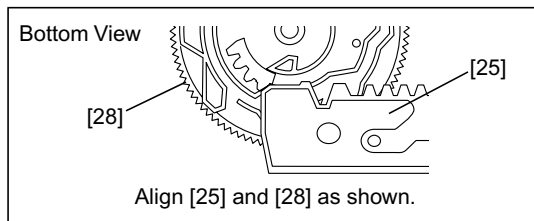
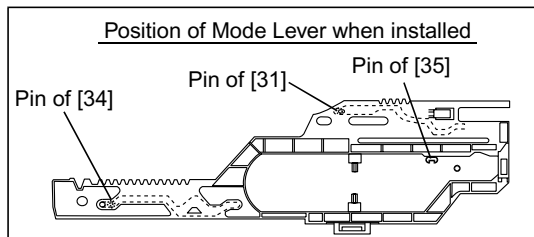
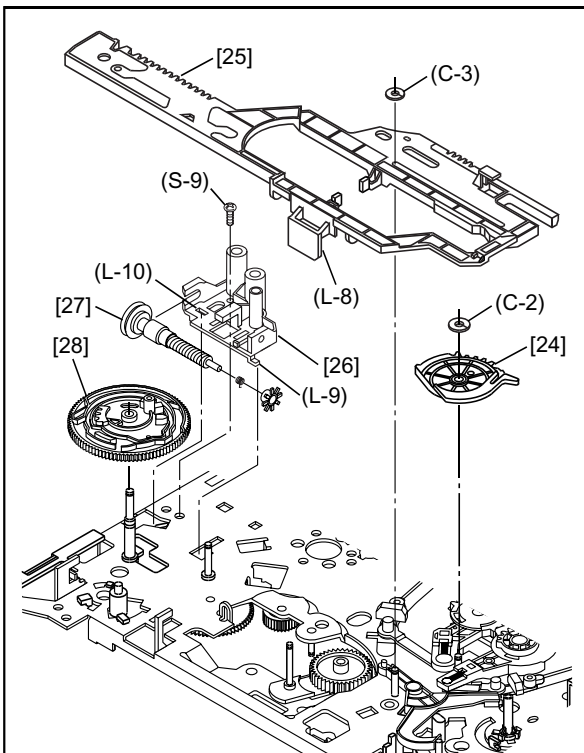


Fig. DM2

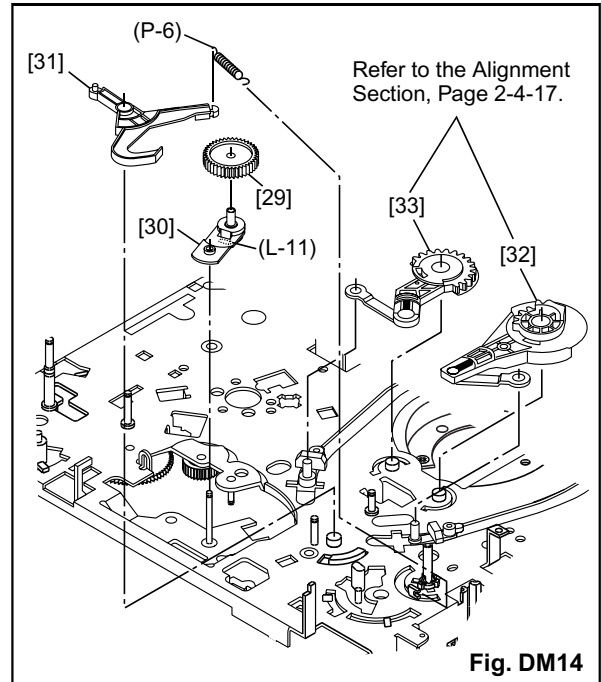




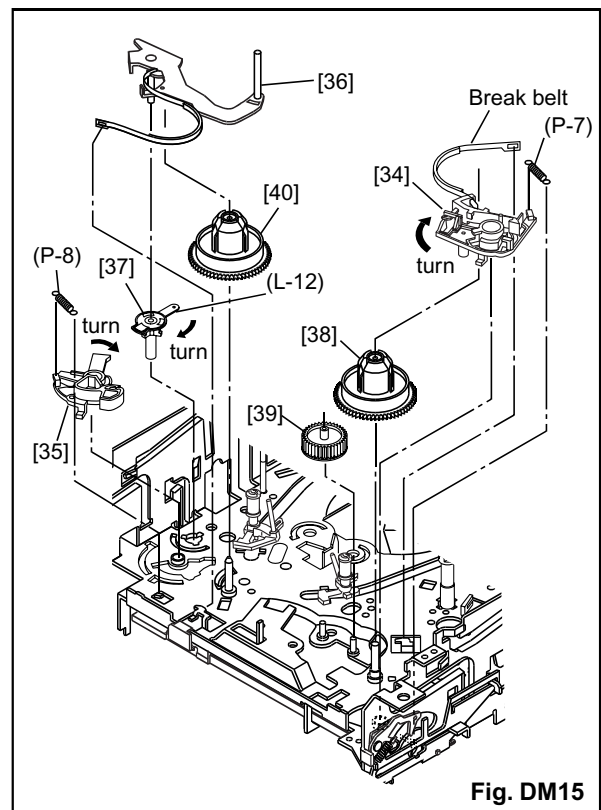




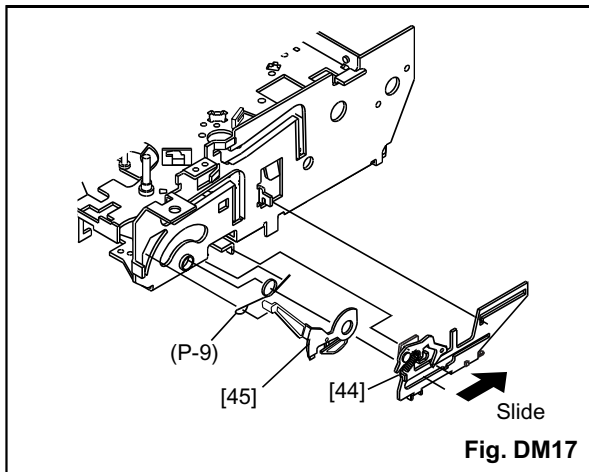
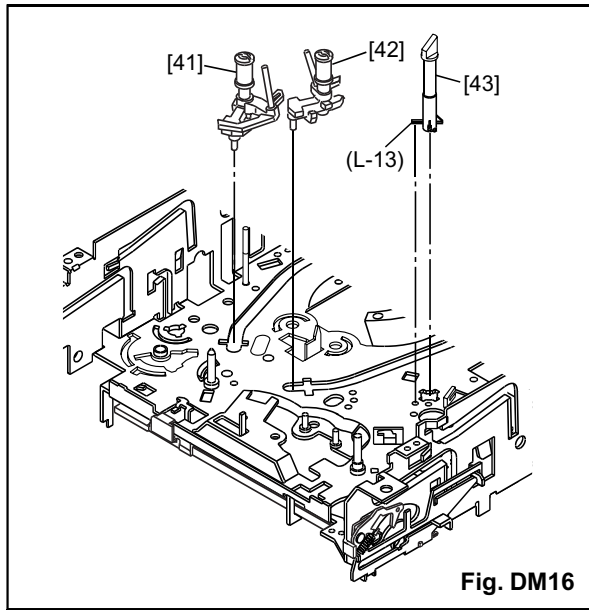
**Fig. DM13**



**Fig. DM14**



**Fig. DM15**



# ALIGNMENT PROCEDURES OF MECHANISM

[ 14PV120/07, 14PV125/ ( 01, 07, 39, 58 ), 14PV225/ ( 01, 07, 39, 58 ), 14PV422/ ( 01, 07, 39, 58 ), 14PV425/07 ]

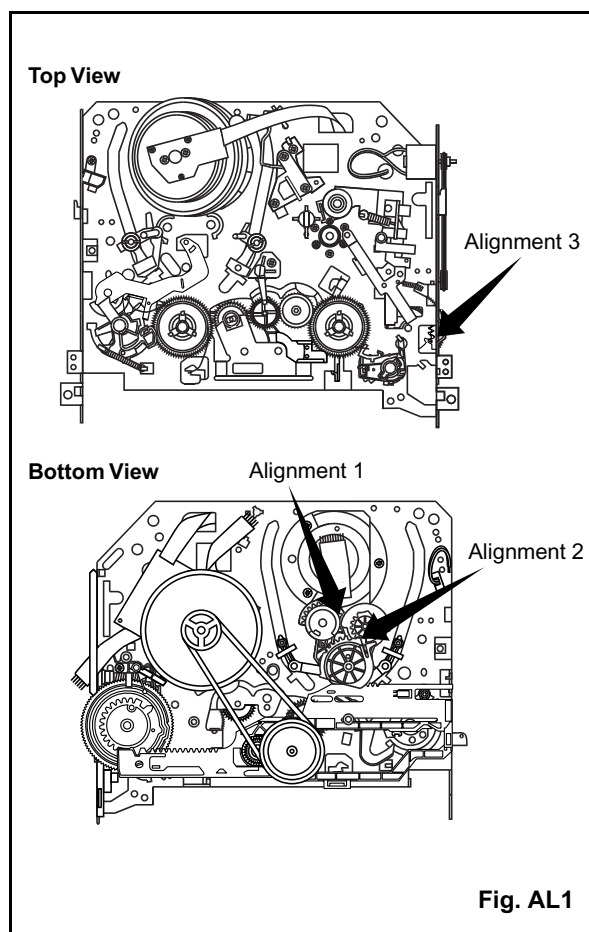
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

**All alignments are to be performed with the mechanism in Eject mode**, in the sequence given. Each procedure assumes that all previous procedures have been completed.

## IMPORTANT:

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

## Alignment points in Eject Position



## Alignment 1

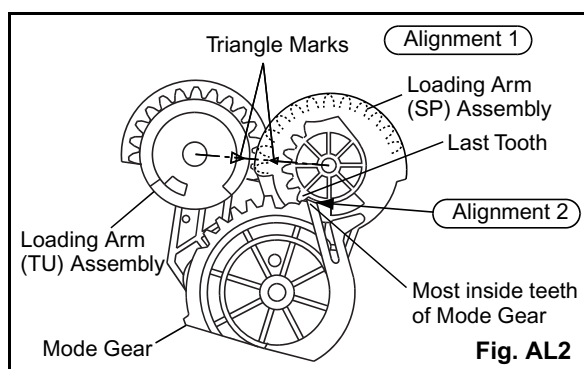
### Loading Arm (SP) and (TU) Assembly

Install Loading Arm (SP) and (TU) Assembly so that their triangle marks point to each other as shown in Fig. AL2.

## Alignment 2

### Mode Gear

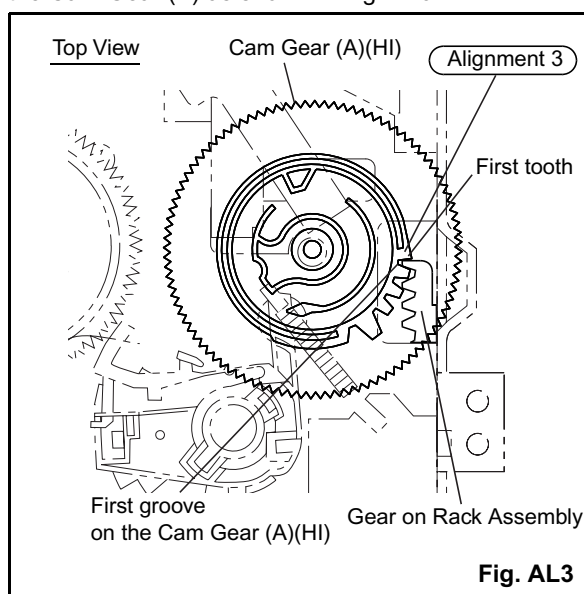
Keeping the two triangles pointing at each other, install the Loading Arm (TU) Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.



## Alignment 3

### Cam Gear (A), Rack Assembly

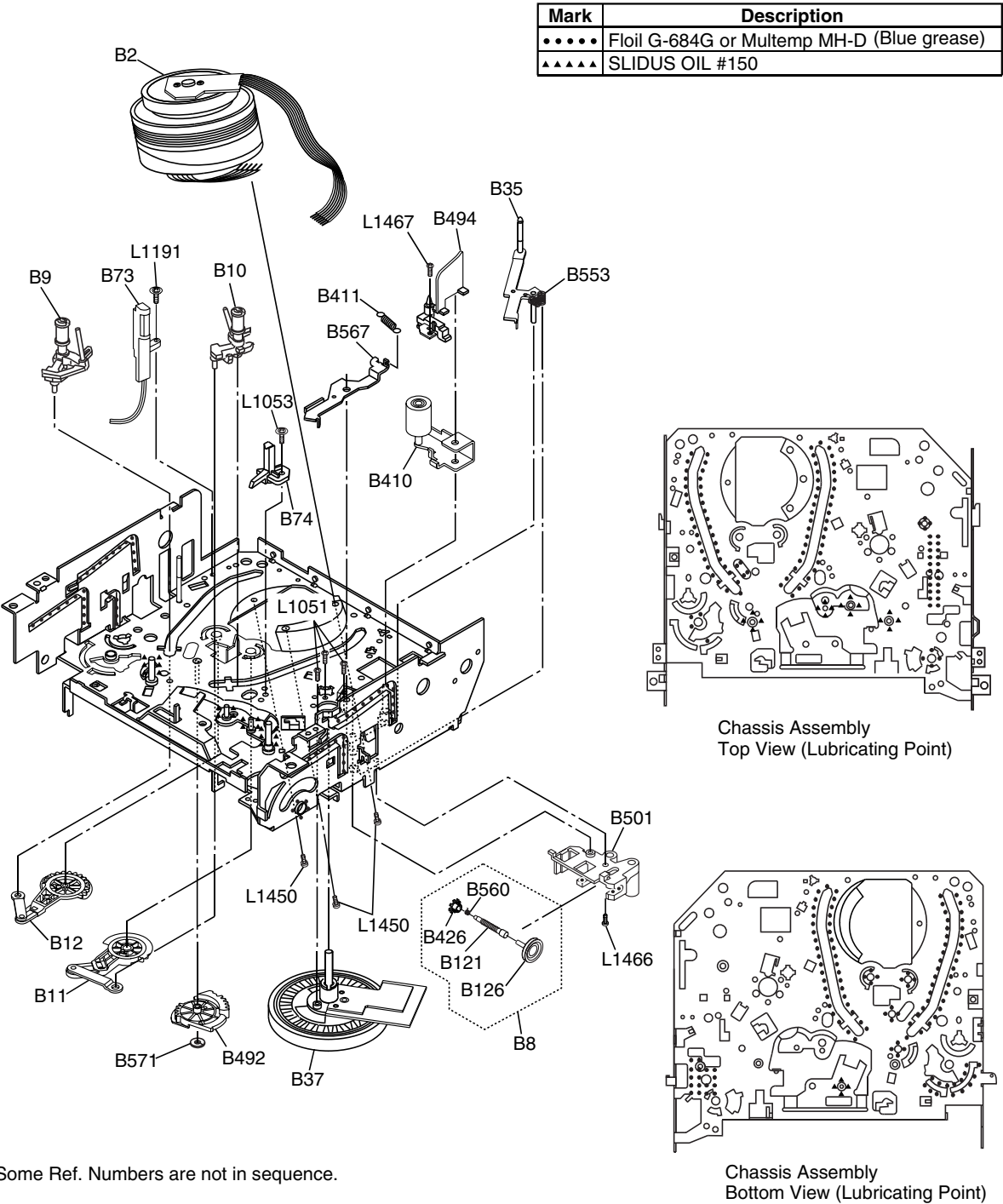
Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) as shown in Fig. AL3.



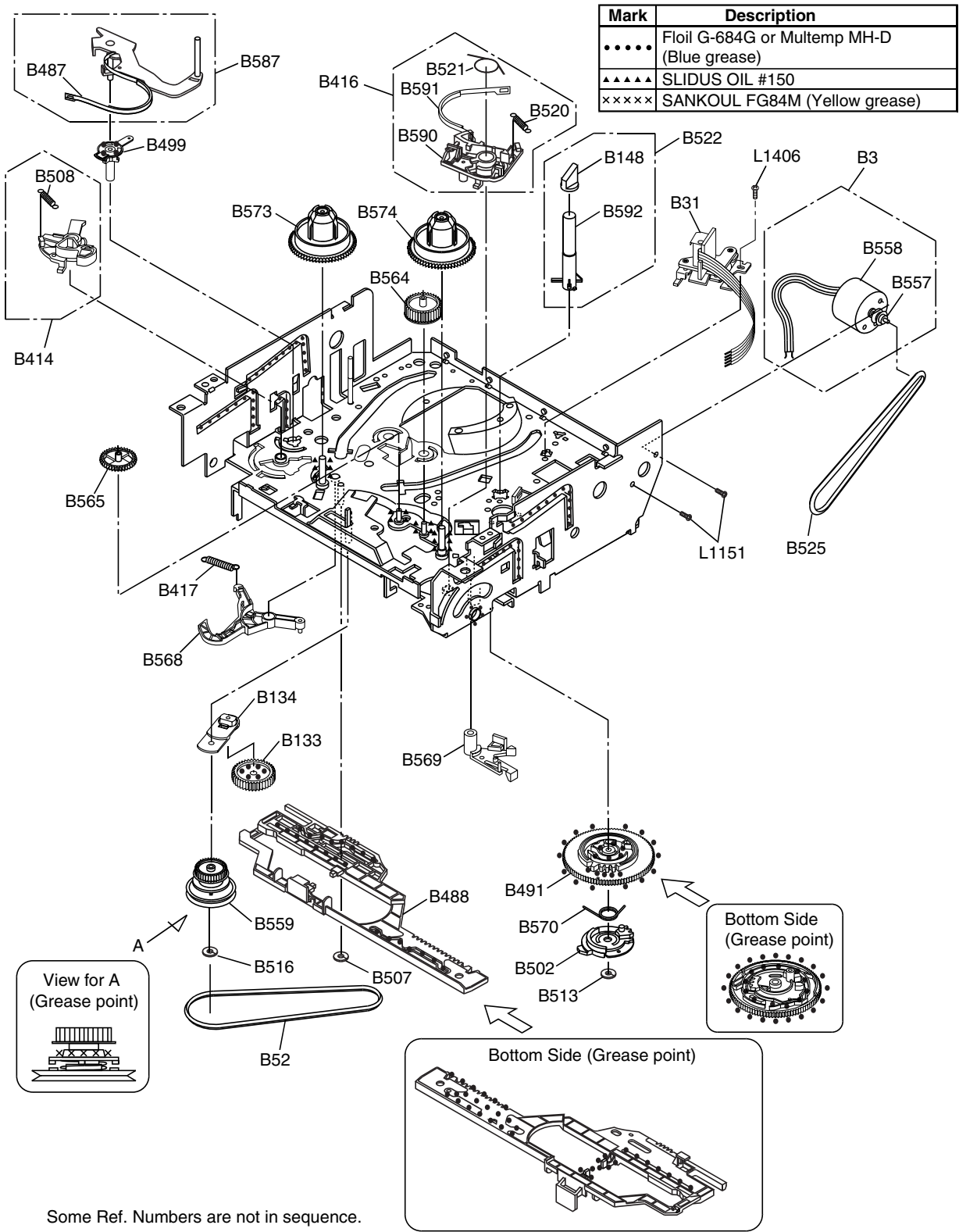
# DECK EXPLODED VIEWS

[ 14PV120/07, 14PV125/ ( 01, 07, 39, 58 ), 14PV225/ ( 01, 07, 39, 58 ),  
14PV422/ ( 01, 07, 39, 58 ), 14PV425/07 ]

## Deck Mechanism View 1

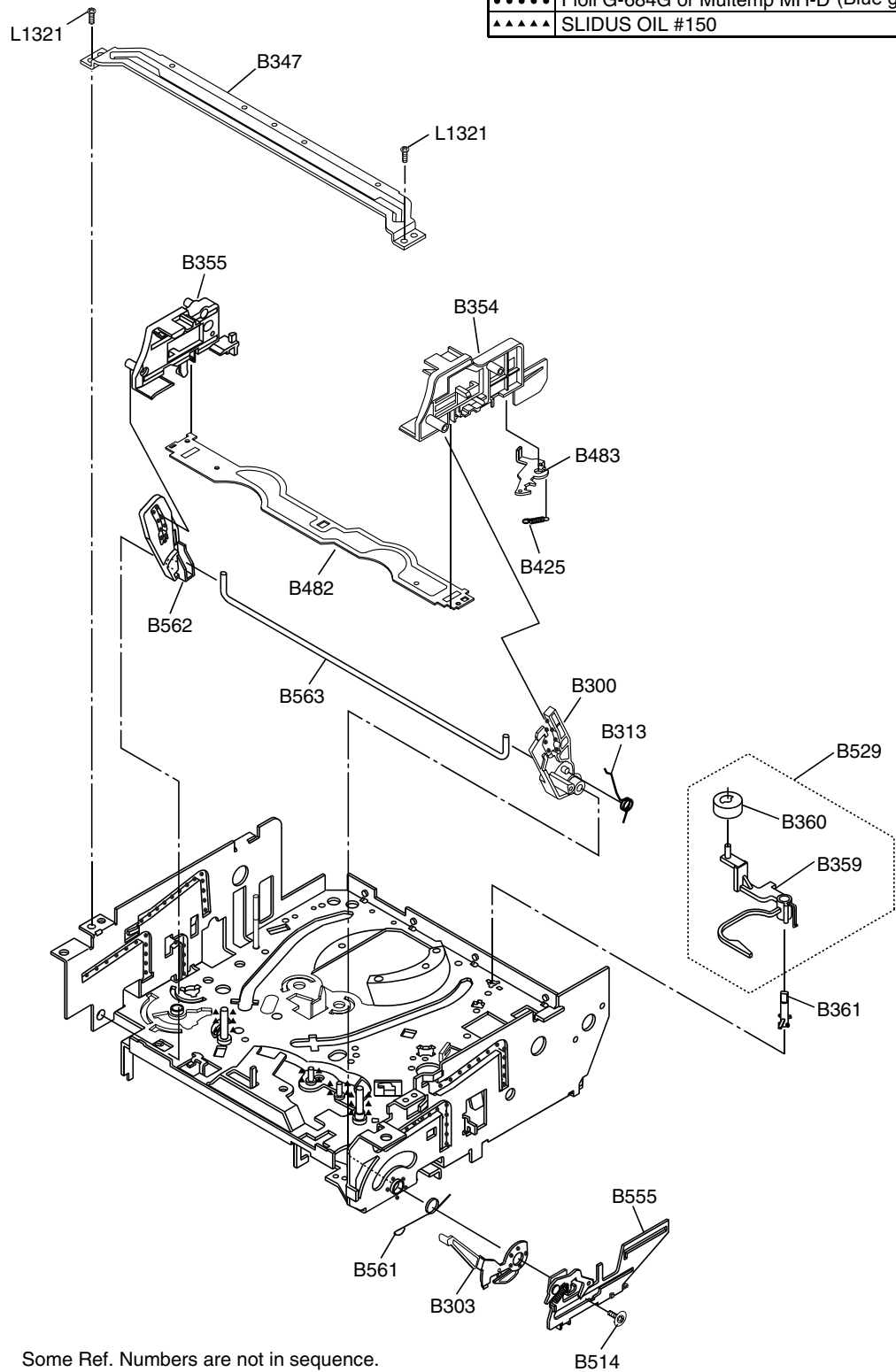


Deck Mechanism View 2



Deck Mechanism View 3

Mark	Description
.....	Floil G-684G or Multemp MH-D (Blue grease)
▲▲▲▲	SLIDUS OIL #150



DECK PARTS LIST		
Pos.	▲ 12 NC	Description
B2	996500017189	CYLINDER ASS. MK12 PAL 2HD 2SP
B3	996500017217	LOADING MOTOR
B8	996500017191	PULLEY ASS. MK12
B9	996500016632	MOVING GUIDE S PREP. MK12
B10	996500016633	MOVING GUIDE T PREP. MK12
B11	996500016634	LOADING ARM(TU) ASS. MK12
B12	996500016635	LOADING ARM(SP) ASS. MK12
B31	996500018127	AC HEAD ASS. MK12(TVCR)
B35	996500016637	TAPE GUIDE ARM ASS. MK12
B37	996500017192	CAPSTAN MOTOR
B52	996500008593	CAP BELT MK10
B73	996500012210	FE HEAD ASS. MK11
B74	996500008555	PRISM MK10
B121	996500016640	WORM MK12
B126	996500018128	PULLEY MK12
B133	996500017193	IDLER GEAR MK12
B134	996500017194	IDLER ARM MK12
B148	996500012368	TG CAP MK11
B300	996500016643	C DRIVE LEVER(TU) MK12
B303	996500018129	F DOOR OPENER MK12
B313	996500016645	C DRIVE SPRING MK12
B347	996500008445	GUIDE HOLDER A MK10
B354	996500018130	SLIDER(TU) MK12
B355	996500016647	SLIDER(SP) MK12
B359	996500008449	CLEANER LEVER MK10
B360	996500006561	CLEANER ROLLER MK9
B361	996500008450	CL POST MK10
B410	996500016648	PINCH ARM(A) ASS.(4) MK12
B411	996500016649	PINCH SPRING MK12
B414	996500017195	M BRAKE(SP) ASS. MK12
B416	996500017196	M BRAKE(TU) ASS. MK12
B417	996500017197	TENSION SPG(3002654) MK12
B425	996500008457	LOCK LEVER SPRING MK10
B426	996500008458	KICK PULLEY MK10
B482	996500016653	CASSETTE PLATE MK12
B483	996500016654	LOCK LEVER MK12
B487	996500016655	BAND BRAKE(SP) MK12
B488	996500017198	MODE LEVER MK12
B491	996500017199	CAM GEAR(A) MK12
B492	996500016658	MODE GEAR MK12
B494	996500016659	C DOOR OPENER MK12
B499	996500016660	T LEVER HOLDER MK12
B501	996500016661	WORM HOLDER MK12
B502	996500017200	CAM GEAR(B) MK12
B507	996500005342	REEL WASHER MK9 5*2.1*0.5
B508	996500008470	S BRAKE SPRING MK10
B513	996500017201	CAM WASHER MK12
B514	996500008641	SCREW RACK MK10
B516	996500005342	REEL WASHER MK9 5*2.1*0.5
B520	996500017202	TU BRAKE SPRING MK12
B521	996500016662	REV BRAKE SPRING MK12
B522	996500012373	TG POST ASS. MK11

DECK PARTS LIST		
Pos.	▲ 12 NC	Description
B525	996500012230	LDG BELT MK11
B529	996500008504	CLEANER ASS. MK10
B553	996500012233	REV SPRING MK11
B555	996500016663	RACK ASS. MK12
B557	996500008519	MOTOR PULLEY U5
B558	996500018131	LOADING MOTOR
B559	996500017204	CLUTCH ASS. MK12
B560	996500008522	KICK SPRING MK10
B561	996500008523	F DOOR SPRING MK10
B562	996500016665	C DRIVE LEVER(SP) MK12
B563	996500016666	SLIDER SHAFT MK12
B564	996500017205	M GEAR MK12
B565	996500017206	SENSOR GEAR MK12
B567	996500016669	PINCH ARM(B) MK12
B568	996500016670	BT ARM MK12
B569	996500017207	CAM HOLDER(F) MK12
B570	996500012240	CAM RACK SPRING(HI) MK11
B571	482253213159	P.S.W CUT 1.6X4.0X0.5T
B573	996500017208	REEL(SP)(D2) MK12
B574	996500017209	REEL(TU)(D2) MK12
B587	996500016674	TENSION LEVER ASS. MK12
B590	996500018132	BRAKE ARM(TU) MK12
B591	996500017210	BAND BRAKE(TU) MK12
B592	996500017211	TG POST MK11
L1051	996500005359	SCREW, B-TIGHT M2.6X6 PAN HEAD+
L1053	996500005375	SCREW, S-TIGHT M2.6X8 WASHER HEAD+
L1151	482250214013	SCREW, SEMS M3X4 PAN HEAD +
L1191	996500005375	SCREW, S-TIGHT M2.6X8 WASHER HEAD+
L1321	482250214009	SCREW, S-TIGHT M3X6 BIND HEAD+
L1406	996500008643	AC HEAD SCREW MK9
L1450	482250214671	SCREW, SEMS M2.6X5 PAN HEAD+
L1466	996500005364	SCREW, S-TIGHT M2.6X6 BIND HEAD+
L1467	996500012251	SCREW, S-TIGHT M2.6X5 WASHER HEAD+

## TV-VCR Combination

Service  
Service  
**Service**

**14PV374/01/07/39/58**

**14PV375/01/07/39/58**

# Service Manual

### Contents

#### Chapter

Sec. 1: Adjustment Procedure  
Schematic Diagrams and CBA's  
Exploded Views  
Mechanical and Electrical Parts Lists

Sec. 2: Standard Maintenance  
Mechanism Alignment Procedures  
Disassembly / Assembly of Mechanism  
Deck Exploded Views

### Survey of versions:

/01	PAL-BG, EURO
/07	PAL I, UK/IRELAND
/39	PAL/SECAM-BG+PAL/SECAM-L/L',FRANCE
/58	PAL-BG/DK+SECAM-BG/DK,EAST-EURO

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.



# MAIN SECTION

## TV-VCR COMBINATION

### Sec. 1: Main Section

- Adjustment Procedures
- Schematic Diagrams and CBA's
- Exploded Views
- Mechanical and Electrical Parts List

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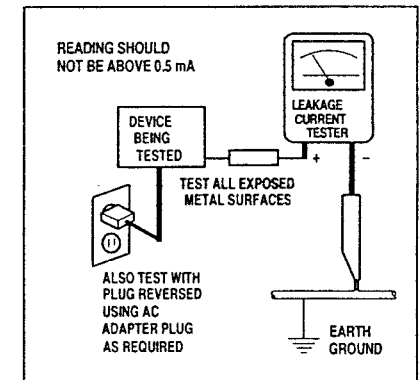
## IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

### Safety Precautions for TV Circuit

1. Before returning an instrument to the customer, always make a safety check of the entire instrument, including, but not limited to, the following items:
  - a. Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.
  - b. Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the picture tube and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
  - c. **Antenna Cold Check** - With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
  - d. **Leakage Current Hot Check** - With the instrument completely reassembled, plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leak-

age current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milli-ampere. Reverse the instrument power cord plug in the outlet and repeat the test.



**ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.**

- e. **X-Radiation and High Voltage Limits** - Because the picture tube is the primary potential source of X-radiation in solid-state TV receivers, it is specially constructed to prohibit X-radiation emissions. For continued X-radiation protection, the replacement picture tube must be the same type as the original. Also, because the picture tube shields and mounting hardware perform an X-radiation protection function, they must be correctly in place. High voltage must be measured each time service

ing is performed that involves B+, horizontal deflection or high voltage. Correct operation of the X-radiation protection circuits also must be reconfirmed each time they are serviced. (X-radiation protection circuits also may be called "horizontal disable" or "hold down.") Read and apply the high voltage limits and, if the chassis is so equipped, the X-radiation protection circuit specifications given on instrument labels and in the Product Safety & X-Radiation Warning note on the service data chassis schematic. High voltage is maintained within specified limits by close tolerance safety-related components/adjustments in the high-voltage circuit. If high voltage exceeds specified limits, check each component specified on the chassis schematic and take corrective action.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the picture tube.


3. **Design Alteration Warning** - Do not alter or add to the mechanical or electrical design of this TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4. **Picture Tube Implosion Protection Warning** - The picture tube in this receiver employs integral implosion protection. For continued implosion protection, replace the picture tube only with one of the same type number. Do not remove, install, or otherwise handle the picture tube in any manner without first putting on shatterproof goggles equipped with side shields. People not so equipped must be kept safely away while picture tubes are handled. Keep the picture tube away from your body. Do not handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; because of potential hazard, do not try to remove such "permanently attached" yokes from the picture tube.


#### 5. Hot Chassis Warning -

- a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known

earth ground. If a voltage reading in excess of 1.0V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.

- b. Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
- c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
6. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
7. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
8. **Product Safety Notice** - Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc.. Parts that have special safety characteristics are identified by a (  ) on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

## Precautions during Servicing

- A. Parts identified by the (  ) symbol are critical for safety.  
Replace only with part number specified.
- B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.  
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.
- C. Use specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
- D. Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation Tape
  - 2) PVC tubing
  - 3) Spacers
  - 4) Insulators for transistors.
- E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.
- F. Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- G. Check that replaced wires do not contact sharp edged or pointed parts.

H. When a power cord has been replaced, check that 5-6 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

#### K. Crimp type wire connector

When replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, in order to prevent shock hazards, perform carefully and precisely the following steps.

#### Replacement procedure

- 1) Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not re-use a connector (discard it).

- 2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.
- 3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.
- 4) Use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

L. When connecting or disconnecting the VCR connectors, first, disconnect the AC plug from AC supply socket.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1 : Ratings for selected area

AC Line Voltage	Clearance Distance (d) (d')
220 to 240 V	≥ 3mm(d) ≥ 6 mm(d')

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method : (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig. 2 and following table.

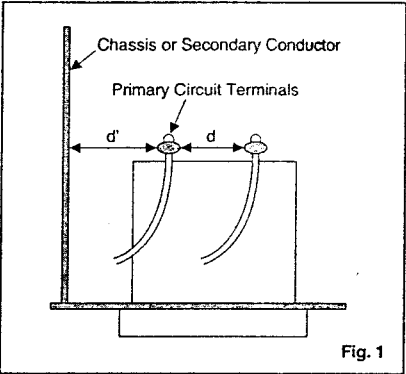


Fig. 1

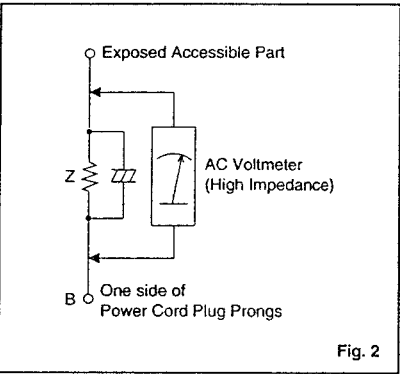


Fig. 2

Table 2: Leakage current ratings for selected areas

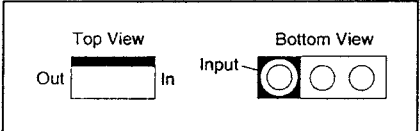
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	RF or Antenna terminals
	50kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

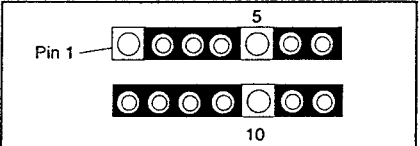
STANDARD NOTES FOR SERVICING

Circuit Board Indications

1. The output pin of the 3 pin Regulator ICs is indicated as shown:



2. For other ICs, pin 1 and every 5th pin is indicated as shown:

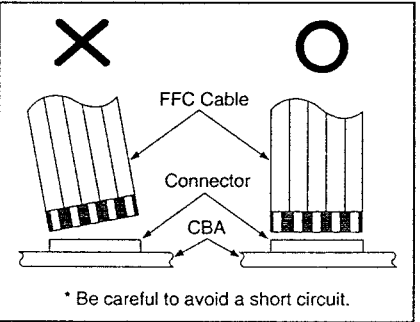


3. The 1st pin of every pin connector are indicated as shown:



Instructions for Connectors

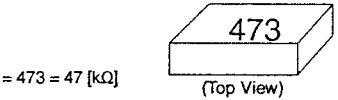
1. When you connect or disconnect FFC cable (connector), be sure to disconnect the AC cord.  
2. FFC cable (connector) should be inserted parallel into the connector, not at an angle.



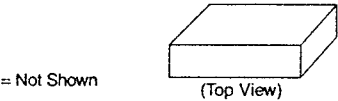
[ CBA= Circuit Board Assembly ]

How to Read the Values of the Rectangular Type Chip Components

Example:  
(a) Resistor



(b) Capacitor



Caution:  
Once chip parts (Resistors, Capacitors, Transistors, etc.) are removed, they must not be reused. Always use a new part.

Replacement Procedures for Leadless (Chip) Components

The Following Procedures are Recommended for the Replacement of the Leadless Components Used in this Unit.

1. Preparation for replacement
- a. Soldering iron  
Use a pencil-type soldering iron (less than 30 watts).
  - b. Solder  
Eutectic solder (Tin 63%, Lead 37%) is recommended.
  - c. Soldering time  
Do not apply heat for more than 4 seconds.
  - d. Preheating  
Leadless capacitor must be preheated before installation. (130°C~150°C, for about two minutes.)

- Notes:
- a. Leadless components must not be reused after removal.
  - b. Excessive mechanical stress and rubbing for the component electrode must be avoided.

2. Removing the leadless component

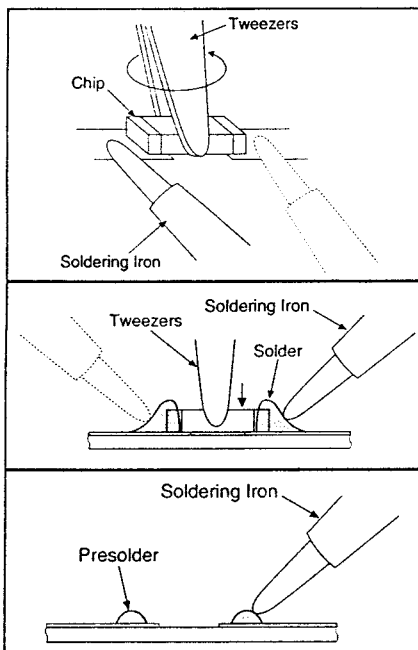
Grasp the leadless component body with tweezers and alternately apply heat to both electrodes. When the solder on both electrodes has melted, remove leadless component with a twisting motion.

#### Notes:

- Do not attempt to lift the component off the board until the component is completely disconnected from the board by the twisting action.
  - Take care not to break the copper foil on the printed board
- #### 3. Installing the leadless component
- Presolder the contact points of the circuit board.
  - Press the part downward with tweezers and solder both electrodes as shown below.

#### Note:

Do not glue the replacement leadless component to the circuit board.



### How to Remove / Install Flat Pack IC

#### Caution:

- Do not apply the hot air to the chip parts around the Flat Pack-IC for over 6 seconds as damage may occur to the chip parts. Put Masking Tape around the Flat Pack-IC to protect other parts from damage. (Fig. S-1-2)

- The Flat Pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or solder lands under the IC when removing it.

#### 1. Removal

##### With Hot - Air Flat Pack - IC Desoldering Machine:

- Prepare the Hot - Air Flat Pack - IC Desoldering Machine, then apply hot air to Flat Pack - IC (about 5~6 seconds). (Fig. S-1-1)
- Remove the Flat Pack- IC with tweezers while applying the hot air.

##### With Soldering Iron:

- Using desoldering braid, remove the solder from all pins of the Flat Pack - IC. When you use solder flux which is applied to all pins of the Flat Pack - IC, you can remove it easily. (Fig. S-1-3)
- Lift each lead of the Flat Pack - IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air Desoldering Machine. (Fig. S-1-4)

##### With Iron Wire:

- Using desoldering braid, remove the solder from all pins of the Flat Pack - IC. When you use solder flux which is applied to all pins of the Flat Pack - IC, you can remove it easily. (Fig. S-1-3)
- Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- Pull up on the wire as the solder melts so as to lift the IC leads from the CBA contact pads, while heating the pins using a fine tip soldering iron or hot air blower.

#### Note:

When using a soldering iron, care must be taken to ensure that the Flat Pack - IC is not being held by glue, or when it is removed from the CBA, it may be damaged if force is used.

#### 2. Installation

- Using desoldering braid, remove the solder from the foil of each pin of the Flat Pack - IC on the CBA, so you can install a replacement Flat Pack - IC more easily.
- The "●" mark on the Flat Pack - IC indicates pin 1 (See Fig. S-1-6). Make sure this mark matches the 1 on the CBA when positioning for installation. Then pre - solder the four corners of the Flat Pack-IC (See Fig. S-1-7).
- Solder all pins of the Flat Pack - IC. Make sure that none of the pins have solder bridges.

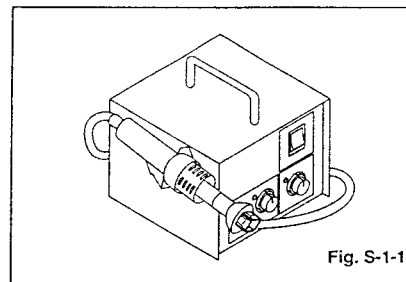


Fig. S-1-1

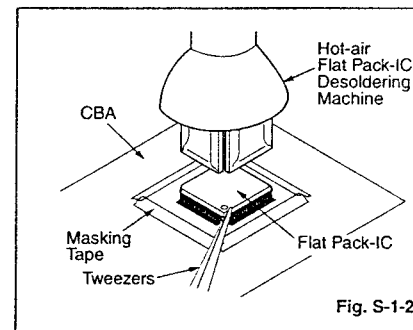


Fig. S-1-2

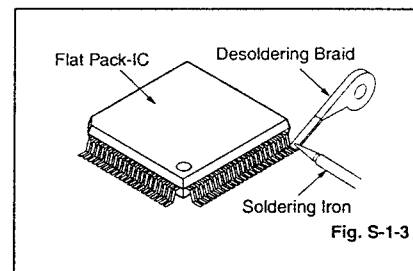


Fig. S-1-3

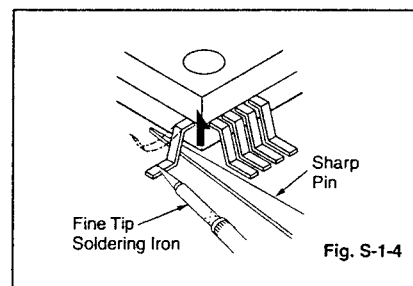


Fig. S-1-4

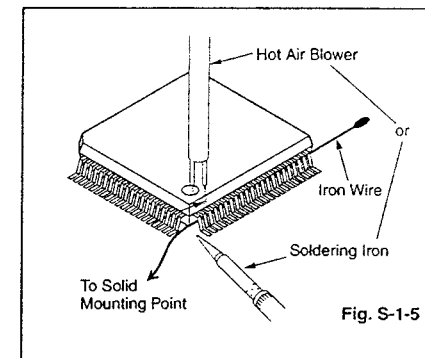


Fig. S-1-5

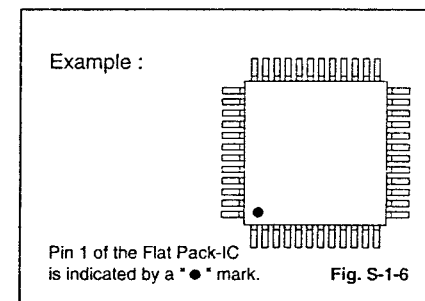


Fig. S-1-6

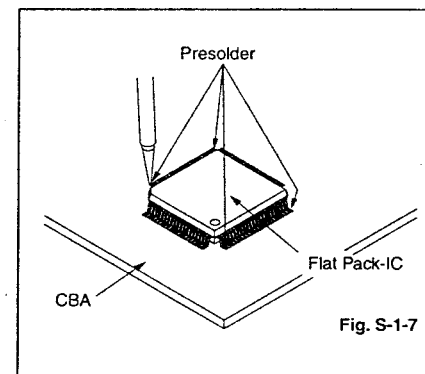


Fig. S-1-7

Instructions for Handling Semiconductors

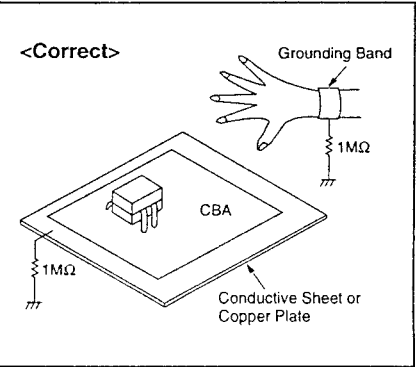
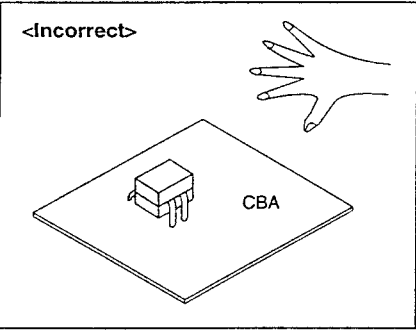
Electrostatic breakdown of the semiconductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

Ground for Human Body

Be sure to wear a grounding band (1MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

Ground for Work Bench

Be sure to place a conductive sheet or copper plate with proper grounding (1MΩ) on the work bench or other surface, where the semiconductors are to be placed. Because the static electricity charge on the clothing will not escape through the body grounding band, be careful to avoid contacting semiconductors to clothing.



PREPARATION FOR SERVICING

How to Enter the Service Mode

Caution: 1

- 1. Optical sensors system are used for Tape Start and End Sensor on this equipment. Read this page carefully and prepare as described on this page before starting to service; otherwise, the unit may operate unexpectedly.

Preparing: 1

- 1. Cover Q202 (START SENSOR) and Q201 (END SENSOR) with Insulation Tape or enter the service mode to activate Sensor Inhibition automatically.

Note: Avoid playing, rewinding or fast forwarding the tape to its beginning or end, because both Tape End Sensors are not active.

How to Enter the Service Mode

- 1. Turn the power on. (Use main power on the TV unit.)
- 2. Press [STANDBY/ON], [2], [7], [1], and [MUTE] buttons on the remote control unit in that order within 5 seconds. When entering the service mode, "4" will display at corners of the screen.
- 3. During the service mode, electrical adjustment mode can be selected by remote control key. Details are as follows.

Key	Adjustment Mode
MENU	Picture adjustment mode: Press the MENU button to change from BRT (Bright), *CNT (Contrast), *COL (Color), *TNT (Tint) and SHP (SHARP). Press P+/P- key to adjust Initial Value. *Marked items are not necessary to adjust normally.
△	SECAM Black Level adjustment mode: See adjustment instructions page 1-6-4. Cut-Off adjustment mode: See adjustment instructions page 1-6-5. White Balance adjustment mode: See adjustment instructions page 1-6-6.
0	C-Trap adjustment mode: See adjustment instructions page 1-6-3.
1	DSPC adjustment mode: See adjustment instructions page 1-6-3.
2	H adjustment mode: See adjustment instructions page 1-6-2.
3	Head switching point adjustment mode (Auto adjustment): See adjustment instructions page 1-6-8.
4	Auto record mode: Perform recording (15 Sec.)-->Stop-->Rewind (Zero return) automatically.

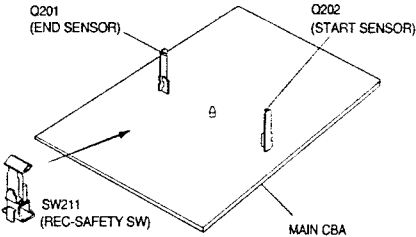
Key	Adjustment Mode
5	Head switching point adjustment mode (Manual adjustment): See adjustment instructions page 1-6-8.
8	H. Shift adjustment mode: See adjustment instructions page 1-6-5.
9	V.size/V. shift adjustment: See adjustment instructions page 1-6-4.

Caution: 2

- 1. The deck mechanism assembly is mounted on the Main CBA directly, and SW211 (REC-SAFETY SW) is mounted on the Main CBA. When deck mechanism assembly is removed from the Main CBA due to servicing, this switch can not be operated automatically.

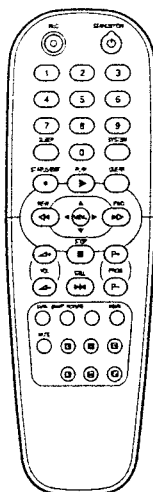
Preparing: 2

- 1. To eject the tape, press the STOP/EJECT button on the unit (or Remote Control).
- 2. When you want to record during the Service mode, press the Rec button while depressing SW211 (REC-SAFETY SW) on the Main CBA.



# OPERATING CONTROLS AND FUNCTIONS

## The remote control



**[CLEAR]** To delete last entry/Clear programmed recording (TIMER).

**[REC ●]** To record the TV channel selected at this moment or press repeatedly to start a One-Touch Recording.

**[STILL ⏮⏭]** To stop the tape and show a still picture.

**[PROG P+]** **[PROG P-]** To select the programme number. During normal or slow motion playback, press to adjust the tracking or vertical jitter.

**[MUTE]** To eliminate the sound. Press again to restore the volume.

**[VOL +]** **[VOL -]** To adjust the volume.

**[SYSTEM]** Doesn't work on these models.

**[SLEEP]** To select the switch-off time in 30 minutes intervals.

**[ ]** : To switch TELETEXT on or off, or transparent mode.

**[ ]** : enlarge font

**[ ]** : select TELETEXT sub-page

**[ ]** : recall hidden information

**[ ]** : stop page changes

**[ ]** : go back to start page.

**[SV/V+]** Red button / To programme recordings with Show View or to alter / clear programmed TIMER recordings. Select TELETEXT function when you are in TELETEXT mode.

**[SMART PICTURE]** Green button / To call up preset picture settings. Select TELETEXT function when you are in TELETEXT mode.

**Yellow button/** Select TELETEXT function when you are in TELETEXT mode.

**[INDEX]** Blue button / Search for the previous/next recording code on the tape in combination with **[REW <<]** /

**[FWD >>]** Select TELETEXT function when you are in TELETEXT mode.

**[STANDBY/ON ⏻]** To switch TVCR on or off, interrupt menu function.

**[MENU]** To call up main menu of TVCR.

**[STATUS/EXIT]** To access or remove the TVCR's on-screen status display. To exit on-screen menus.

**[0..9]** Press to select channels.

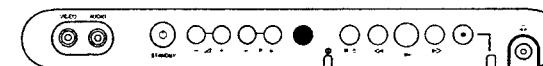
**[FWD >>]** When tape playback is stopped, press to fast forward the tape at high speed. During playback, press to fast forward the tape while the picture stay on the screen. To store or confirm entry in the menu. Press to adjust the controls of TVCR menu.

**[REW <<]** When tape playback is stopped, press to rewind the tape at high speed. During playback, press to rewind the tape while the picture stay on the screen. To return the cursor in the menu. Press to adjust the controls of TVCR menu.

**[PLAY ▶]** To play a tape, select an item in the menu of TVCR.

**[STOP ■]** To stop the tape, select an item in the menu of TVCR.

## Front of the device



**[⏻]** Standby/on: To switch TVCR on or off, interrupt menu function.

**[▲]** Volume: In connection with the button **[■]** to adjust the volume.

**[P-]** Programme number minus: previous programme number

**[P+]** Programme number plus: next programme number

**[●]** Record: To record the programme currently selected.

**[▶]** Playback: To play a recorded cassette.

**[■/▲]** Pause/Stop, eject cassette: To stop the tape; If this key is depressed while in STOP, the cassette is then ejected from the machine.

**[▶▶]** When tape playback is stopped, press to fast forward the tape at high speed.

**[◀◀]** When tape playback is stopped, press to rewind the tape at high speed.

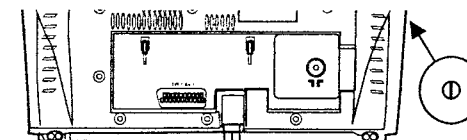
**[ ]** Sockets on the front:

White socket / **[AUDIO]** input socket: To connect a camcorder or video games (audio).

Yellow socket / **[VIDEO]** input socket: To connect a camcorder or video games (video).

Small socket / **[ ]** socket for headphones: To connect headphones.

## Back of the set



**[ ]** Aerial input socket: To connect the aerial cable

**[EXT 1/AV 1]** Scart socket: To connect a satellite receiver, decoder, video recorder, etc

**[⏻]** Power switch: To switch the TV-Video Combi off.

Caution: If you switch off using the power switch, TIMER-recordings are impossible!

## The control lights at the front of machine

**STANDBY ●** Standby light: lights up when the TV-Video Combi has been switched on by means of the main switch.

**RECORD ●** Recording light: lights up during recording.

FAST blink: RECORDING PAUSE; TIMER RECORDING NOT STAND-BY.

SLOW blink; TIMER RECORDING is stored in a timer block.

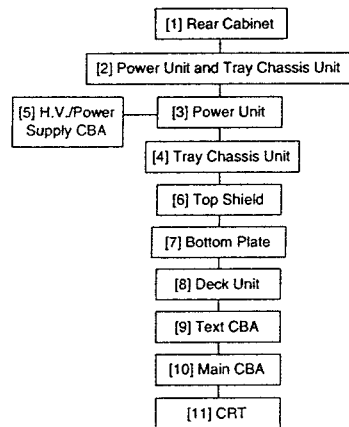
# CABINET DISASSEMBLY INSTRUCTIONS

## 1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts, and the CBA in order to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.

### Caution !!

When removing the CRT, be sure to discharge the Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.



## 2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/ *UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOL- DER	Note
[1]	Rear Cabinet	1,2,5	4(S-1), 2(S-2), *CN804	1
[2]	Power Unit and Tray Chassis Unit	3,4,5	Anode Cap, *CN501, *CN551, *CN601, CRT CBA	2
[3]	Power Unit	3,5	*CN502, *CN552, *CN602	3
[4]	Tray Chassis Unit	3	-----	-
[5]	H.V./Power Supply CBA	3	6(S-3)	4

ID/ LOC. No.	PART	Fig. No.	REMOVAL	
			REMOVE/ *UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOL- DER	Note
[6]	Top Shield	3	5(S-4), CL604	5
[7]	Bottom Plate	3	(S-5)	6
[8]	Deck Unit	3, 5	7(S-6), (S-7), (S-8), Desolder *(CN201, CL401, CL402, CL403)	7
[9]	Text CBA	3, 5	(S-9), *CN751, *CN752	8
[10]	Main CBA	3	4(S-10)	9
[11]	CRT	4	4(S-11)	10

(1): Order of steps in Procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the identification (location) No. of parts in Figures.

(2): Parts to be removed or installed.

(3): Fig. No. showing Procedure of Part Location.

(4): Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

S=Screw, P=Spring, L=Locking Tab, CN=Connector, \*=Unhook, Unlock, Release, Unplug, or Desolder

2(S-2) = two Screw (S-2)

(5): Refer to the following "Reference Notes in the Table."

### Reference Notes in the Table

1. Removal of the Rear Cabinet.

Remove four screws (S-1) and two screws (S-2). Disconnect connector CN804 and remove the Rear Cabinet.

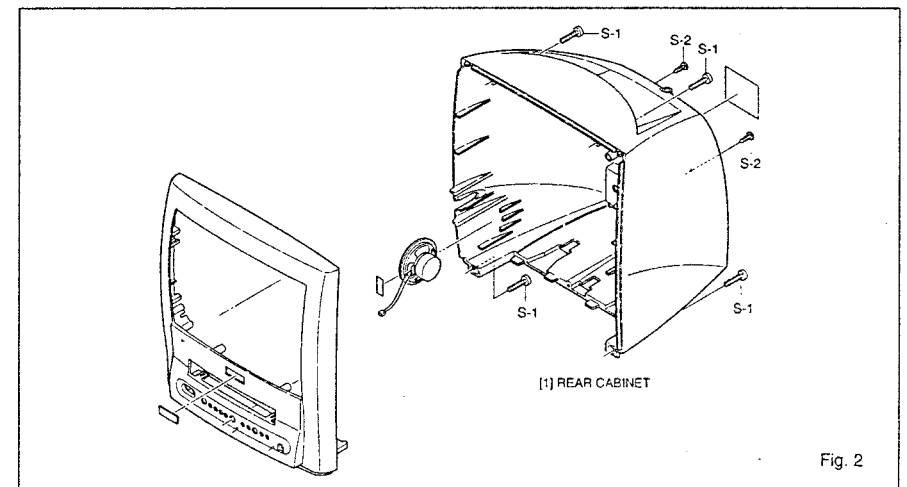
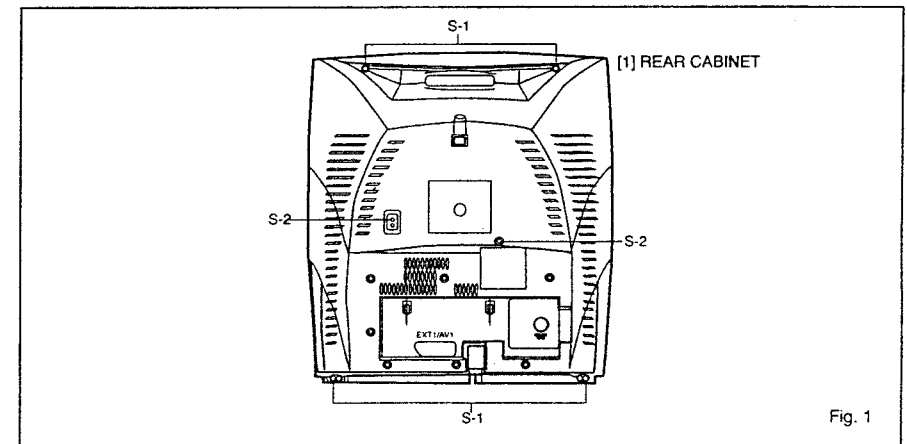
### Caution !!

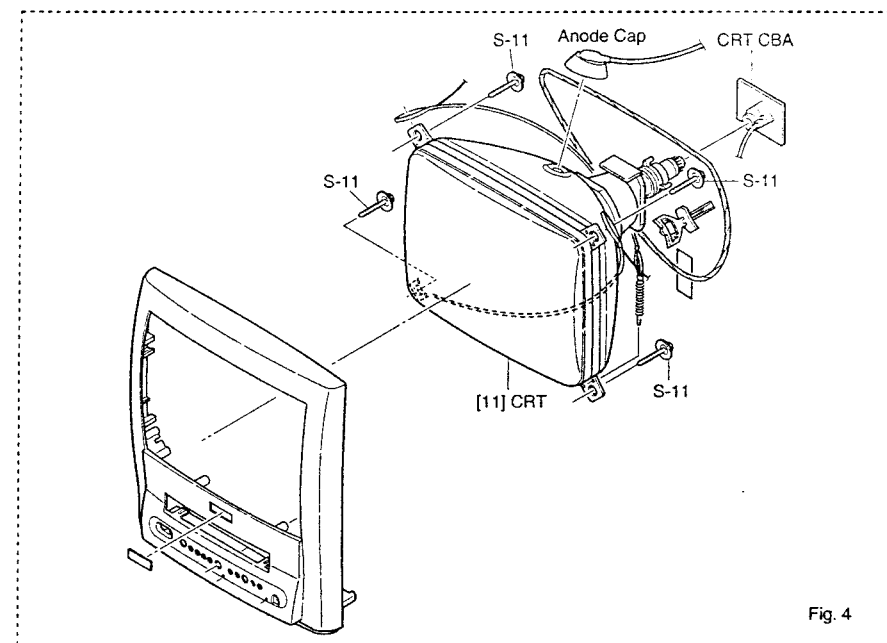
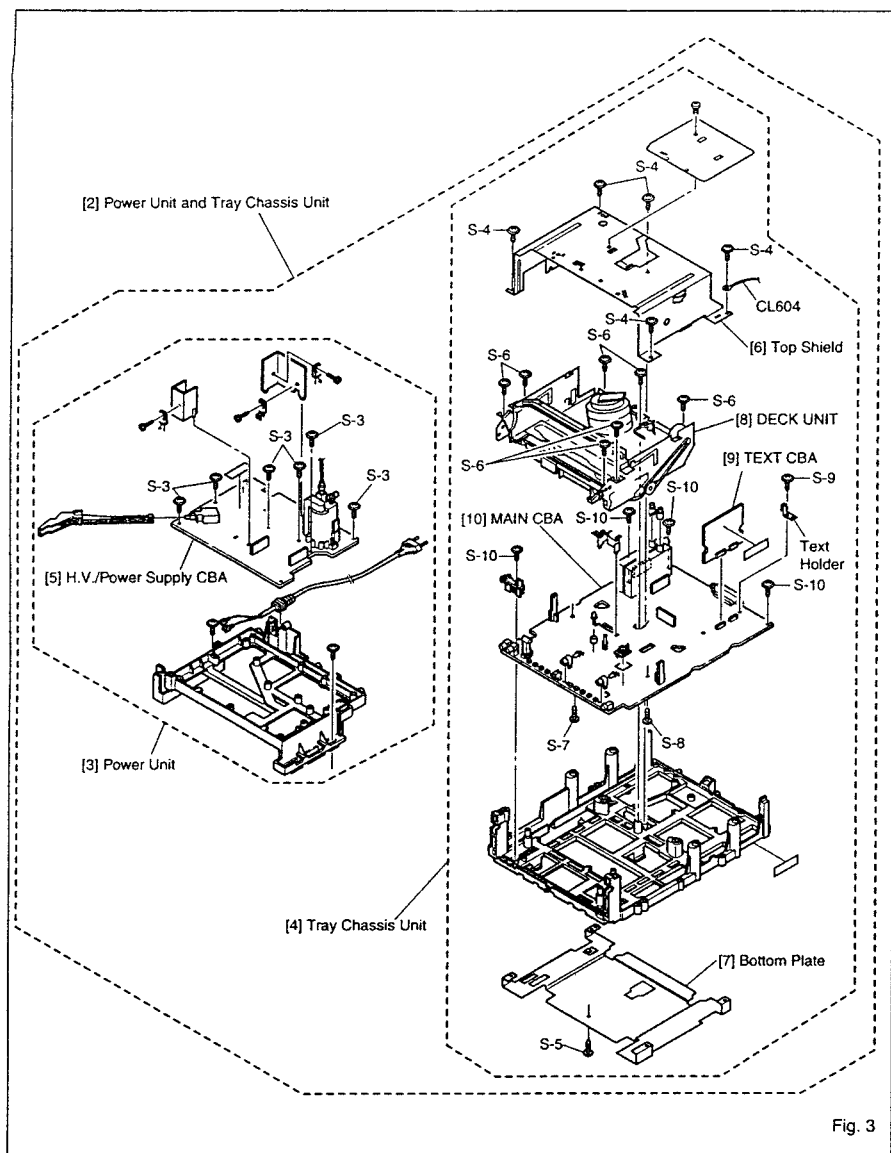
Discharge the Anode Lead of the CRT with the CRT Ground Wire before removing the Anode Cap.

2. Removal of the Power Unit and Tray Chassis Unit. Discharge the Anode Lead of the CRT with the CRT Ground before removing the Anode Cap. Disconnect the following: Anode Cap, CN501, CN551, CN601, and CRT CBA. Then pull the Power Unit and Tray Chassis Unit out backward.

- Removal of the Power Unit. Disconnect connectors CN502, CN552, and CN602. Then slide the Power Unit out.
- Removal of the H.V./Power Supply CBA. Remove six screws (S-3) and pull up the H.V./Power Supply CBA.
- Removal of the Top Shield. Remove five screws (S-4) and CL604, and remove the Top Shield.
- Removal of the Bottom Plate. Remove a screw (S-5). Then slide the Bottom Plate out front.

- Removal of the Deck Unit. Remove seven screws (S-6), screw (S-7) and screw (S-8). Then, desolder connectors (CN201, CL401, CL402, CL403) and lift up the Deck Unit.
- Removal of the Text CBA. Remove screw (S-9), and disconnect connectors CN751 and CN752. Then, lift the Text CBA up.
- Removal of the Main CBA. Remove four screws (S-10) and pull up the Main CBA.
- Removal of the CRT. Remove four screws (S-11) and pull the CRT backward.





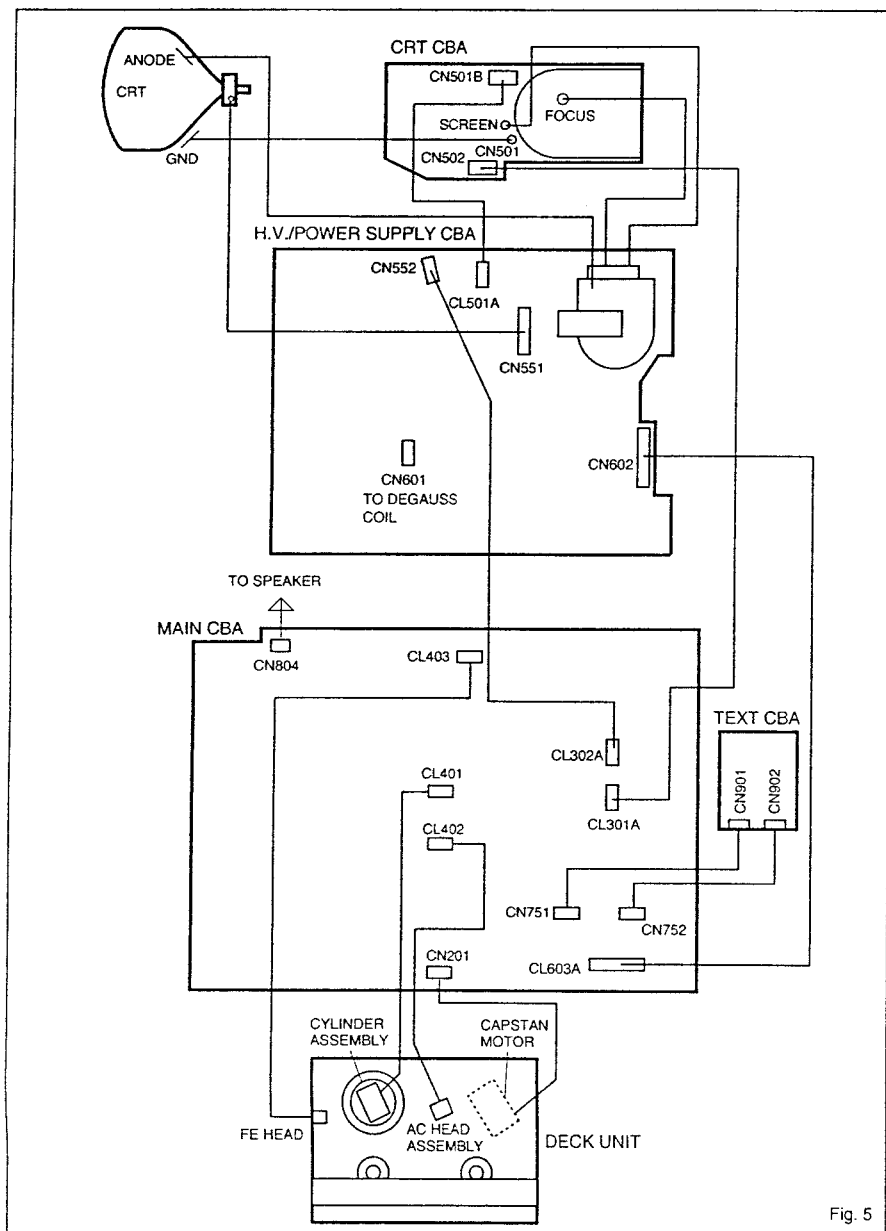


Fig. 5

## ELECTRICAL ADJUSTMENT INSTRUCTIONS

### General Note:

"CBA" is abbreviation for "Circuit Board Assembly."

### NOTE:

Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed.

Also, do not attempt these adjustments unless the proper equipment is available.

### Test Equipment Required

1. PAL Pattern Generator (Color Bar, Monoscope, Black Raster, White Raster, Sympte)
2. SECAM Pattern Generator (Gray Scale)
3. AC Milli Voltmeter (RMS)
4. Alignment Tape (FL6A), Blank Tape (E180)
5. DC Voltmeter
6. Oscilloscope: Dual-trace with 10:1 probe, V-Range: 0.001~50V/Div, F-Range: DC~AC-60MHz
7. Frequency Counter
8. Plastic Tip Driver
9. RF input (at each broadcasting system)  
Receiving Channel : VHF Low  
Input level : 80dBμV
10. Ext. input  
FRONT VIDEO-IN JACK or REAR SCART JACK

### How to Set up the Service mode:

#### NOTE:

After replacing the IC202 (Memory) or Main CBA, the set value in IC202 (Memory) will be lost. So it is necessary to set up or adjust in the Service mode after its replacement.

#### Service Mode:

1. Turn the power on. (Use main power on the TV unit.)
2. Press [STANDBY/ON], [2], [7], [1], and [MUTE] buttons on the remote control unit in that order within 5 seconds.
- To cancel the service mode, press [STANDBY/ON] button on the remote control.

### How to set up the option code

1. Enter the Service mode.
2. Press the [STATUS/EXIT] button on the remote control unit. The option code appears on the display.
3. If needed, input the option code as shown below using number buttons on the remote control unit.

Model	Option Code
14PV120(125)(422)(425)/07	0128
14PV225/07	0176
14PV374(375)/07	2992
14PV125(422)/01	0130
14PV225/01	0178
	0242 (Greek)
14PV374(375)/01	2994
	3058 (Greek)
14PV125(422)/58	0131
14PV225/58	0179
14PV374(375)/58	2995
14PV125(422)/39	0129
14PV225/39	0177
14PV374(375)/39	2961

4. To reset the software, press [PAUSE] and [5] buttons on the remote control unit. The option code is changed.

## 1. DC 105V (+B) Adjustment

**Purpose:** To obtain correct operation.

**Symptom of Misadjustment:** The picture is dark and unit does not operate correctly.

Test point	Adj. Point	Mode	Input
TP503 (+B), TP504 (GND)	VR601	RF (or Ext.)	Color Bar
Tape	M. EQ.	Spec.	
---	DC Voltmeter, Plastic Tip Driver	+105±0.5V DC	

**Note:** TP503(+B), TP504(GND), VR601 --- H.V./Power Supply CBA

1. Connect the unit to AC Power Outlet. (exact AC230V)
2. Input a color bar signal from RF (or Ext.) input and leave it for at least 20 minutes.
3. Connect DC Volt Meter to TP503(+B) and TP504(GND).
4. Adjust VR601 so that the voltage of TP503(+B) becomes +105±0.5V DC.

## 2. H Adjustment

**Purpose:** To get correct horizontal position and size of screen image.

**Symptom of Misadjustment:** Horizontal position and size of screen image may not be properly displayed.

Test point	Adj. Point	Mode	Input
R590	P+/P- buttons	Ext.	---
Tape	M. EQ.	Spec.	
---	Frequency Counter	15.625kHz±75Hz	

**Note:** R590 --- H.V./Power Supply CBA

1. Connect Frequency Counter to R590.
2. Set the unit to the Ext. mode and no input is necessary. Enter the Service mode. (See page 1-6-1.)
3. Operate the unit for at least 20 minutes.
4. Press [2] button on the remote control unit and select H-Adj Mode.
5. Press [P+/P-] buttons on the remote control unit so that the display will change [0] to [7]. At this moment, choose display [0] to [7] when the Frequency counter display is closest to 15.625kHz±75Hz.
6. Turn the power off and on again.

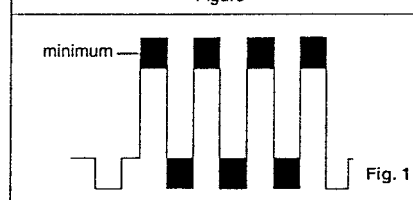
## 3. C-Trap Adjustment

**Purpose:** To get minimum leakage of the color signal carrier.

**Symptom of Misadjustment:** If C-Trap Adjustment is incorrect, stripes will appear on the screen.

Test point	Adj. Point	Mode	Input
J349F3 (B-OUT)	P+/P- buttons	RF (or Ext.)	Color Bar
Tape	M. EQ.	Spec.	
---	Oscilloscope, Pattern Generator	200mVp-p Max.	

Figure



**Note:** J349F3 (B-Out)--- Main CBA

1. Connect Oscilloscope to J349F3.
2. Input a color bar signal from RF (or Ext.) input. Enter the Service mode. (See page 1-6-1.)
3. Press [0] button on the remote control unit and select C-TRAP Mode.
4. Press [P+/P-] buttons on the remote control unit so that the carrier leakage B-Out (4.43MHz) value becomes minimum on the oscilloscope.
5. Turn the power off and on again.

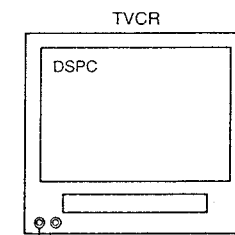
## 4. How to measure the standard V-ENV value of Digital Studio Picture Control

**Purpose:** To set the recording condition appropriate for the recording tape.

**Symptom of Misadjustment:** Recording or playing back picture quality may fall. The picture will be tinted.

1. Insert a new tape (type: E180) for the DSPC alignment into the TV/VCR.
2. Input the black raster signal from the video input jack (VIDEO-IN).
3. Enter the Service Mode. (See page 1-6-1.)

4. To enter the DSPC mode, press [1] button on the remote control unit. Recording starts automatically and "DSPC" appears on the display.



VIDEO INPUT JACK (Ext. input)

Fig. 2

5. Recording continues for 10 seconds in SP mode. **Note:** Since the reference value of LP V-ENV is computed from the reference value of SP V-ENV, there is no need to survey it.
6. The tape is rewinded to the recording start point.
7. The unit enters the play mode automatically and the V-ENV levels of each the reference value of SP mode and the computing value of LP mode are memorized into the EEPROM.
8. "OK" or "NG" appears on upper left corner of the screen with blueback. In case of "OK": "OK" (green) is indicated without ejecting tape. In case of "NG": "NG" (red) is indicated with ejecting tape.

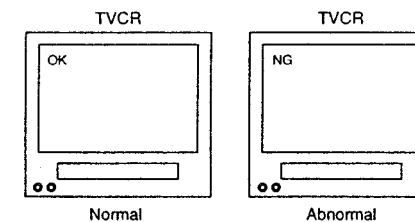


Fig. 3

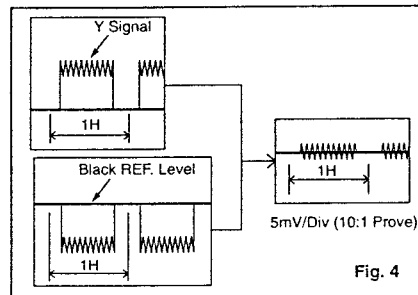
## 5. SECAM Black Level Adjustment

**Purpose:** To set Black Level of the SECAM signal R-Y/B-Y to Ref. level.

**Symptom of Misadjustment:** If Black Level of the SECAM signal R-Y/B-Y is incorrect, the picture is bluish or reddish in grayscale compared with PAL signal.

Test point	Adj. Point	Mode	Input
J361G4	P+/P- buttons	Ext.	SECAM Gray Scale
Tape	M. EQ.	Spec.	
---	Pattern Generator, Analog Oscilloscope (unusable Digital Oscilloscope)	---	

1. Degauss the CRT and allow CRT to operate for 20 minutes before starting the alignment.
2. Input the SECAM Gray Scale signal from Ext. input.
3. Enter the Service Mode. (See page 1-6-1.)
4. To enter the C/D/S mode, press [  $\triangle$  - ] on the remote control unit.
5. To select SBR (SECAM Black Level R-Y), press [6] button on the remote control unit.
6. Press [P+/P-] buttons to adjust Y signal to the black ref. level.
7. To select SBB (SECAM Black Level B-Y), press [7] button on the remote control unit.
8. Press [P+/P-] buttons to adjust Y signal to the black ref. level.



## 6. V. Size Adjustment

**Purpose:** To obtain correct vertical height of screen image.

**Symptom of Misadjustment:** If V. Size is incorrect, vertical height of image on the screen may not be properly displayed.

Test point	Adj. Point	Mode	Input
Screen	P+/P- buttons	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	90±5%	

1. Enter the Service mode. (See page 1-6-1.) Press [9] button on the remote control unit and select V-S Mode. (Press [9] button then display will change to V-P and V-S).
2. Input monoscope pattern and leave it for at least 20 minutes.
3. Press [P+/P-] buttons on the remote control unit so that the monoscope pattern is 90±5% of display size and the circle is round.

## 7. V. Shift Adjustment

**Purpose:** To obtain correct vertical position of screen image.

**Symptom of Misadjustment:** If V. position is incorrect, vertical position of image on the screen may not be properly displayed.

Test point	Adj. Point	Mode	Input
Screen	P+/P- buttons	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	90±5%	

1. Enter the Service mode. (See page 1-6-1.) Press [9] button on the remote control unit and select V-P Mode. (Press [9] button then display will change to V-P and V-S).
2. Input monoscope pattern and leave it for at least 20 minutes.
3. Press [P+/P-] buttons on the remote control unit so that the top and bottom of the monoscope pattern are equal to each other.

## 8. H. Shift Adjustment

**Purpose:** To obtain correct horizontal position and size of screen image.

**Symptom of Misadjustment:** Horizontal position and size of screen image may not be properly displayed.

Test point	Adj. Point	Mode	Input
Screen	P+/P- buttons	RF (or Ext.)	Monoscope
Tape	M. EQ.	Spec.	
---	Pattern Generator	90±5%	

1. Enter the Service mode. (See page 1-6-1.) Press [8] button on the remote control unit and select H-P Mode.
2. Input monoscope pattern and leave it for at least 20 minutes.
3. Press [P+/P-] buttons on the remote control unit so that the left and right side of the monoscope pattern are equal to each other.
4. Turn the power off and on again.

## 9. Cut-off Adjustment

**Purpose:** To adjust the beam current of R, G, B, and screen voltage.

**Symptom of Misadjustment:** White color may be reddish, greenish or bluish.

Test point	Adj. Point	Mode	Input
Screen	Screen-Control, P+/P- buttons	RF (or Ext.)	Black Raster
Tape	M. EQ.	Spec.	
---	Pattern Generator	See Reference Notes below	

### Notes:

Screen Control (FBT) --- H.V./Power Supply CBA  
FBT= Fly Back Transformer  
Use the Remote Control Unit

1. Degauss the CRT and allow CRT to operate for 20 minutes before starting the alignment.
2. Set the screen control to minimum position. Input the Black raster signal from RF (or Ext.) input.
3. Enter the Service Mode. (See page 1-6-1.) Dimmed horizontal line appears on the CRT.
4. To enter the C/D/S mode, press the [  $\triangle$  - ] button on the remote control unit.
5. To enter the CUT OFF (R) mode, press [1] button on the remote control unit.

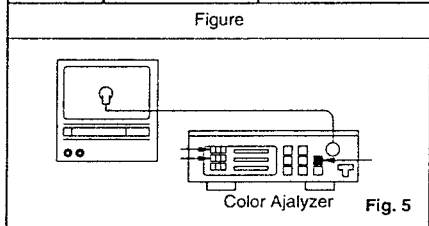
6. Turn the screen control up until dimmed horizontal line appears.
7. Press the [P+/P-] buttons until the horizontal line becomes white.
8. To enter the CUT OFF (G) mode, press [2] button on the remote control unit.
9. Press the [P+/P-] buttons until the horizontal line becomes white.
10. To enter the CUT OFF (B) mode, press [3] button on the remote control unit.
11. Press the [P+/P-] buttons until the horizontal line becomes white.
12. Turn the screen control so that the horizontal line adjusted white looks lightly.
13. Turn the power off and on again.

## 10. White Balance Adjustment

**Purpose:** To mix red, green and blue beams correctly for pure white.

**Symptom of Misadjustment:** White becomes bluish or reddish.

Test point	Adj. Point	Mode	Input
Screen	Screen-Control, P+/P--buttons	RF (or Ext.)	White Raster (APL 100%)
Tape	M. EQ.		Spec.
---	Pattern Generator, Color analyzer		See below



**Note:** Use remote control unit

1. Operate the unit more than 20 minutes.
2. Face the unit to east. Degauss the CRT using Degaussing Coil.
3. Input the White Raster (APL 100%).
4. Set the color analyzer to the CHROMA mode and after zero point calibration, bring the optical receptor to the center on the tube surface (CRT).
5. Enter the Service mode. Press [  $\triangleleft$  ] button on the remote control.
6. Press [4] button on the remote control unit for Red adjustment. Press [5] button on the remote control unit for Blue adjustment.
7. In each color mode, Press [P+/P--] buttons to adjust the values of color.
8. Adjusting Red and Blue color so that the temperature becomes 8500K (x : 290 / y : 300)  $\pm 3\%$ .
9. At this time, Re-check that Horizontal line is white. If not, Re-adjust Cut-off Adjustment until the Horizontal Line becomes pure white.
10. Turn off and on again to return to normal mode. Receive APL 100% white signal and Check Chroma temperatures become 8500K (x : 290 / y : 300)  $\pm 3\%$ .

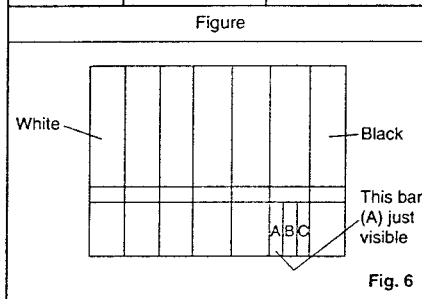
**Note:** Confirm that Cut Off Adj. is correct after this adjustment, and attempt Cut Off Adj. if needed.

## 11. Sub-Brightness Adjustment

**Purpose:** To get proper brightness.

**Symptom of Misadjustment:** If Sub-Brightness is incorrect, proper brightness cannot be obtained by adjusting the Brightness Control.

Test point	Adj. Point	Mode	Input
Screen	P+/P--buttons	RF (or Ext.)	SYMPTE
Tape	M. EQ.		Spec.
---	Pattern Generator		See below



**Note:** Bar (A) in Fig. 7 --- 0 IRE

1. Enter the Service Mode. (See page 1-6-1.) Then input SYMPTE signal from RF (or Ext.) input and leave it for at least 20 minutes.
2. Press MENU button. (Each time MENU button is pressed, display will change BRT, CNT, COL, TNT, and SHP in that order.) Select BRT and press [P+/P--] buttons so that the bar (A) in Fig. 6 is just visible.
3. Turn the power off and on again.

## 12. Setting for CONTRAST, COLOR, TINT and SHARP Data Values

**General**

1. Enter the Service mode. (See page 1-6-1)
2. Press MENU button. (Each time MENU button is pressed, display will change BRT, CNT, COL, TNT, and SHP in that order.)

### CONTRAST (CNT)

1. Press "MENU" button on the remote control unit. Then select CNT display.
2. Press [P+/P--] buttons on the remote control unit so that the value of "CONTRAST" (CNT) becomes 83.

### COLOR (COL)

1. Press "MENU" button on the remote control unit. Then select "COLOR" (COL) display.
2. Press [P+/P--] buttons on the remote control unit so that the value of "COLOR" (COL) becomes 65.

### TINT (TNT)

1. Press "MENU" button on the remote control unit. Then select "TINT" (TNT) display.
2. Press [P+/P--] buttons on the remote control unit so that the value of "TINT" (TNT) becomes 68.

### SHARP (SHP)

1. Press "MENU" button on the remote control unit. Then select "SHARP" (SHP) display.
2. Press [P+/P--] buttons on the remote control unit and select "1."

## 13. Focus Adjustment

**Purpose:** Set the optimum Focus.

**Symptom of Misadjustment:** If Focus Adjustment is incorrect, blurred images are shown on the display.

Test point	Adj. Point	Mode	Input
Screen	Focus Control	RF (or Ext.)	Monoscope
Tape	M. EQ.		Spec.
---	Pattern Generator		See below.

**Note:** Focus VR (FBT) --- H.V./Power Supply CBA

FBT= Fly Back Transformer

1. Operate the unit more than 30 minutes.
2. Face the unit to the East and degauss the CRT using a Degaussing Coil.
3. Input the monoscope pattern.
4. Adjust the Focus Control on the FBT to obtain clear picture.

14. Head Switching Position Adjustment

**Purpose:** Determine the Head Switching Point during Playback.

**Symptom of Misadjustment:** May cause Head Switching Noise or Vertical Jitter in the picture.

**Note:** Unit reads Head Switching Position automatically and displays it on the screen (Upper Left Corner).

Manual Adjustment

- 1. Enter the Service Mode. (See page 1-6-1.)
- 2. Playback the test tape (FL6A).
- 3. Press the number [5] button on the remote control unit.
- 4. The Head Switching position will display on the screen; if adjustment is necessary follow step 4. 7.0H (448μs) is preferable.
- 5. Press [P+/P-] buttons on the remote control unit if necessary. The value will be changed in 0.5H steps up or down. Adjustable range is up to 9.5H. If the value is beyond adjustable range, the display will change as:  
Lower out of range: 0.0H  
Upper out of range: -.H
- 6. Turn the power off and on again.

Auto Adjustment

- 1. Load the test tape (FL6A) that have been recorded the Head Switching Position Value.
- 2. Enter the service mode.
- 3. Press [3] button on the remote control unit in the tape stop mode. The unit playback and adjust the Head Switching Position automatically.
- 4. The adjusting report appears on upper left corner of the screen with blueback.  
In case of adjusting correctly: the Head Switching Position Value recorded in the test tape (FL6A) is indicated with green.  
In case of adjusting incorrectly: "NG" (red) is indicated with ejecting tape.

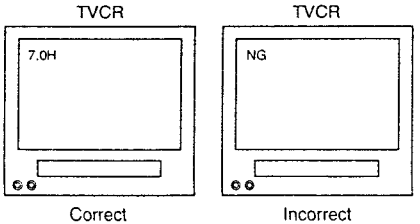
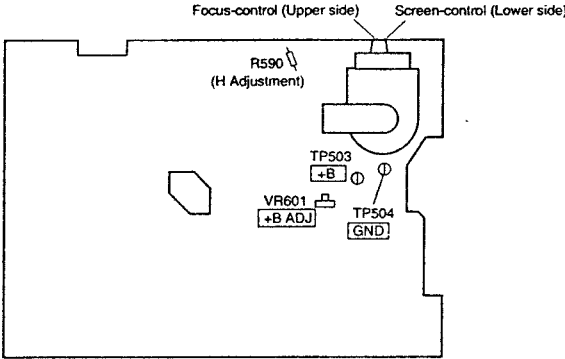


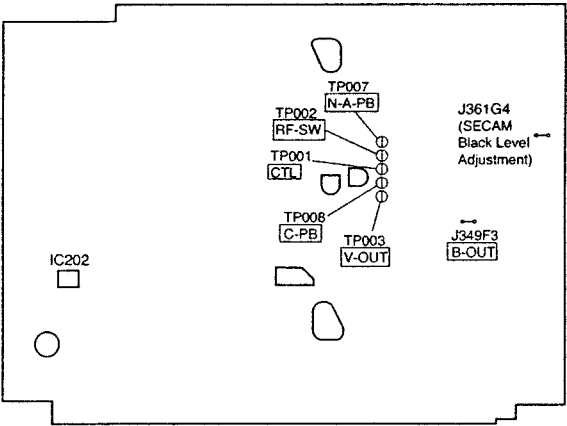
Fig. 7

Adjustment Points and Test Points

H.V./Power Supply CBA Top View



Main CBA Top View



TEST POINT INFORMATION

①: Indicates a test point with a jumper wire across a hole in the PCB.

TEST POINTS NOT USED IN ELECTRICAL ADJUSTMENTS

Test Point	Used in:	Page No.
TP001	Mechanical Alignment Procedures	2-3-3
TP002	Mechanical Alignment Procedures	2-3-3, 2-3-4
TP008	Mechanical Alignment Procedures	2-3-3, 2-3-4
TP503	Electrical Adjustment Instructions	1-6-1
TP504	Electrical Adjustment Instructions	1-6-1

# BLOCK DIAGRAMS

## Servo/System Control Block Diagram

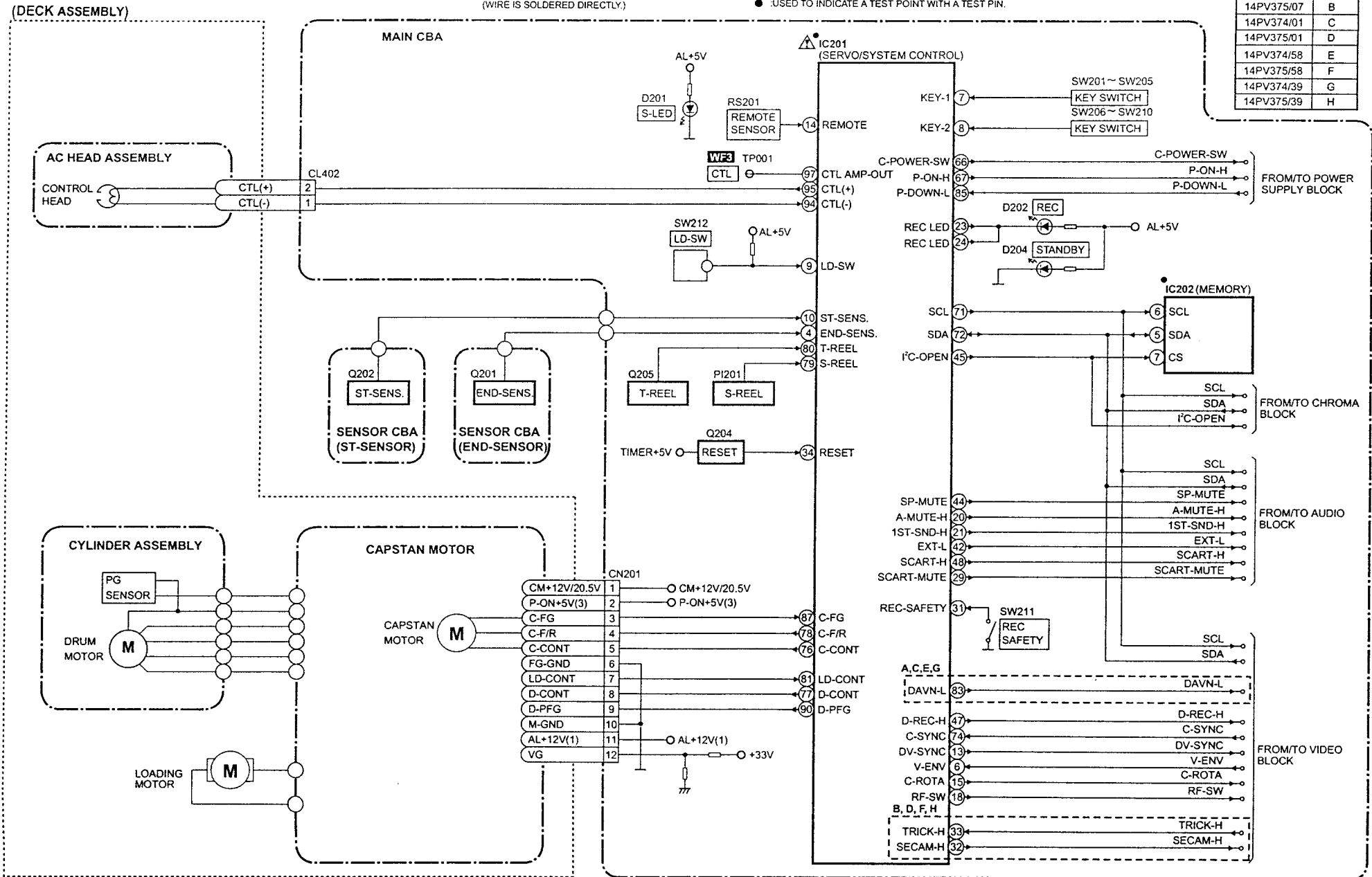
NOTE FOR WIRE CONNECTORS:  
 1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
 (CAN DISCONNECT AND RECONNECT.)  
 2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER  
 HOLES OF THE PCB.  
 (WIRE IS SOLDERED DIRECTLY.)

### TEST POINT INFORMATION

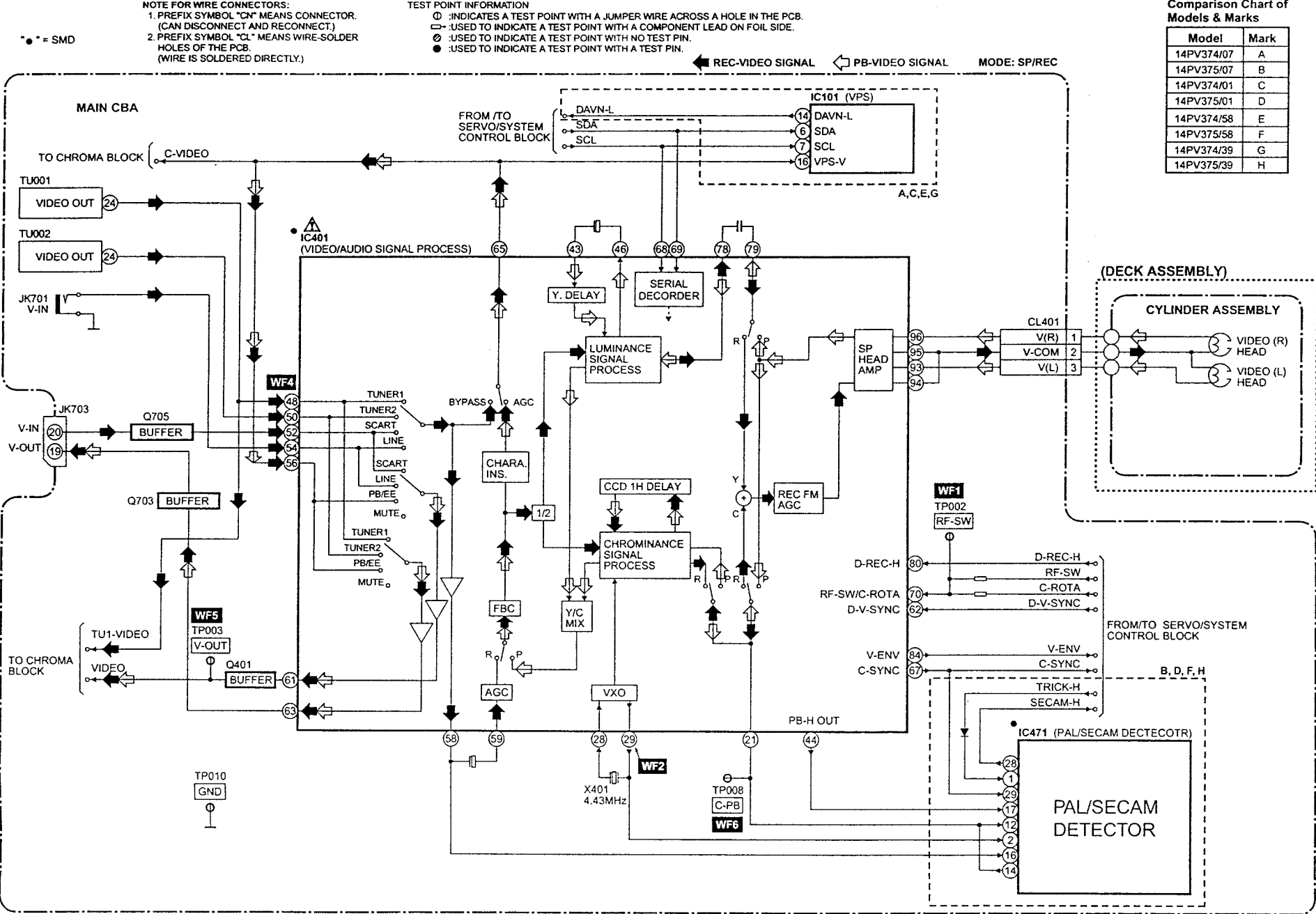
- ⊙ INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB
- ⊖ USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOIL SIDE.
- ⊗ USED TO INDICATE A TEST POINT WITH NO TEST PIN.
- USED TO INDICATE A TEST POINT WITH A TEST PIN.

### Comparison Chart of Models & Marks

Model	Mark
14PV374/07	A
14PV375/07	B
14PV374/01	C
14PV375/01	D
14PV374/58	E
14PV375/58	F
14PV374/39	G
14PV375/39	H



Video Block Diagram



Comparison Chart of Models & Marks

Model	Mark
14PV374/07	A
14PV375/07	B
14PV374/01	C
14PV375/01	D
14PV374/58	E
14PV375/58	F
14PV374/39	G
14PV375/39	H

# Audio Block Diagram

## NOTE FOR WIRE CONNECTORS:

1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
(CAN DISCONNECT AND RECONNECT.)
2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER HOLES OF THE PCB.  
(WIRE IS SOLDERED DIRECTLY.)

"•" = SMD

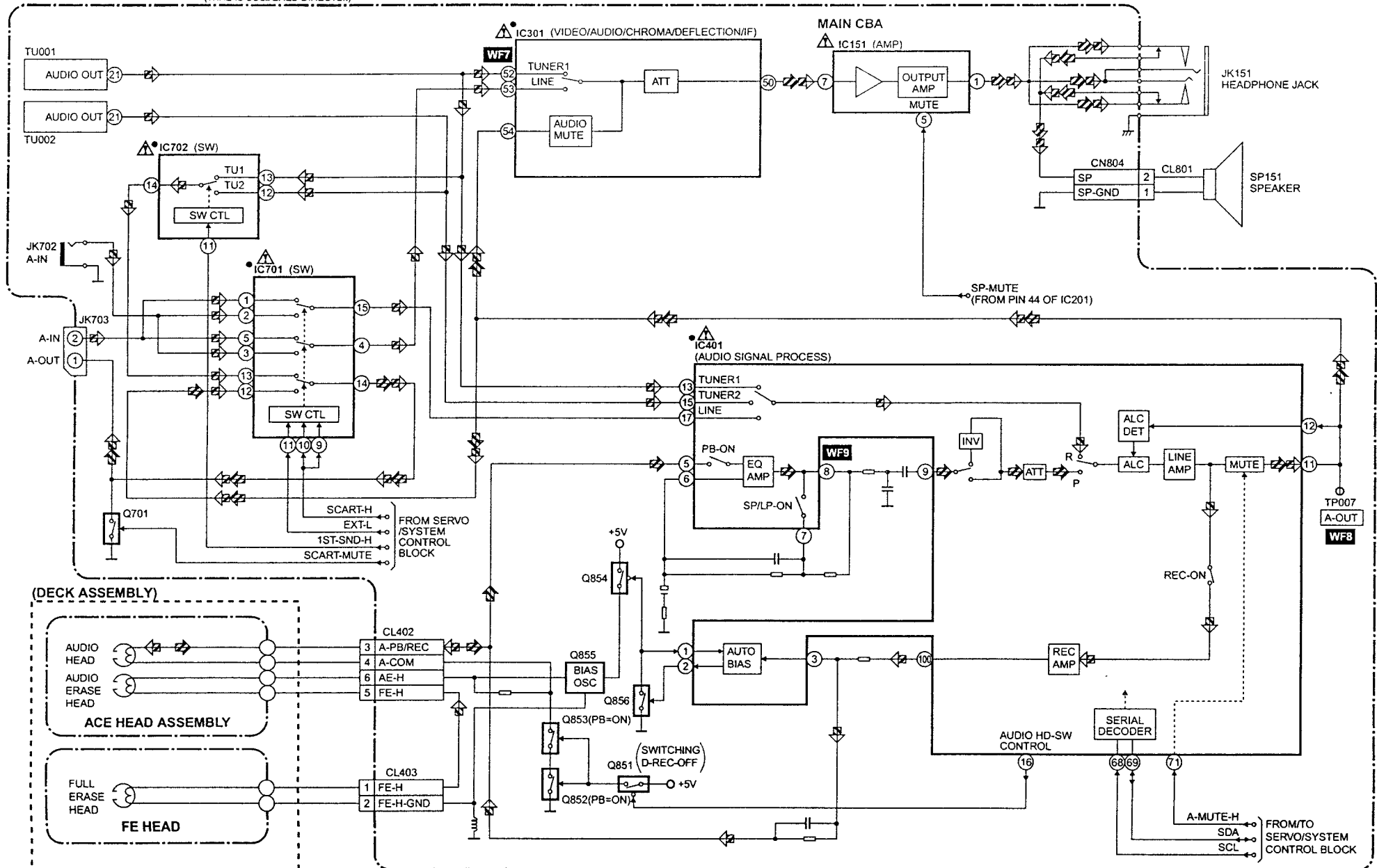
## TEST POINT INFORMATION

- : INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB.
- ◻ : USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOIL SIDE.
- ◐ : USED TO INDICATE A TEST POINT WITH NO TEST PIN.
- : USED TO INDICATE A TEST POINT WITH A TEST PIN.

PB-AUDIO SIGNAL

REC-AUDIO SIGNAL

Mode : SP/REC



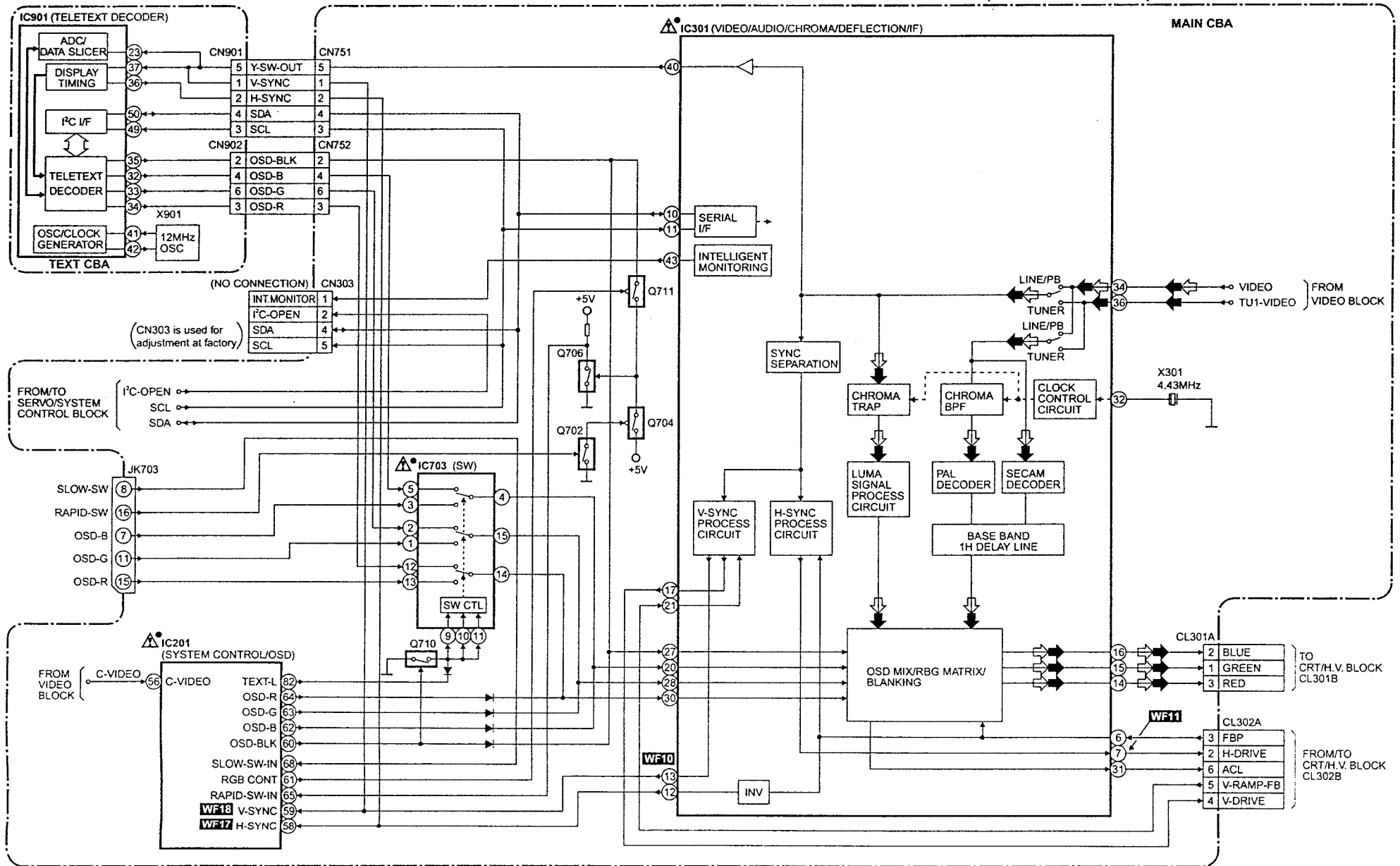
Chroma Block Diagram

NOTE FOR WIRE CONNECTORS:  
1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
(CAN DISCONNECT AND RECONNECT.)  
2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER  
HOLES OF THE PCB.  
(WIRE IS SOLDERED DIRECTLY.)

TEST POINT INFORMATION  
① :INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB.  
② :USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOIL SIDE.  
③ :USED TO INDICATE A TEST POINT WITH NO TEST PIN.  
● :USED TO INDICATE A TEST POINT WITH A TEST PIN.

•• = SMD

REC VIDEO SIGNAL    PB VIDEO SIGNAL    Mode : SP/REC



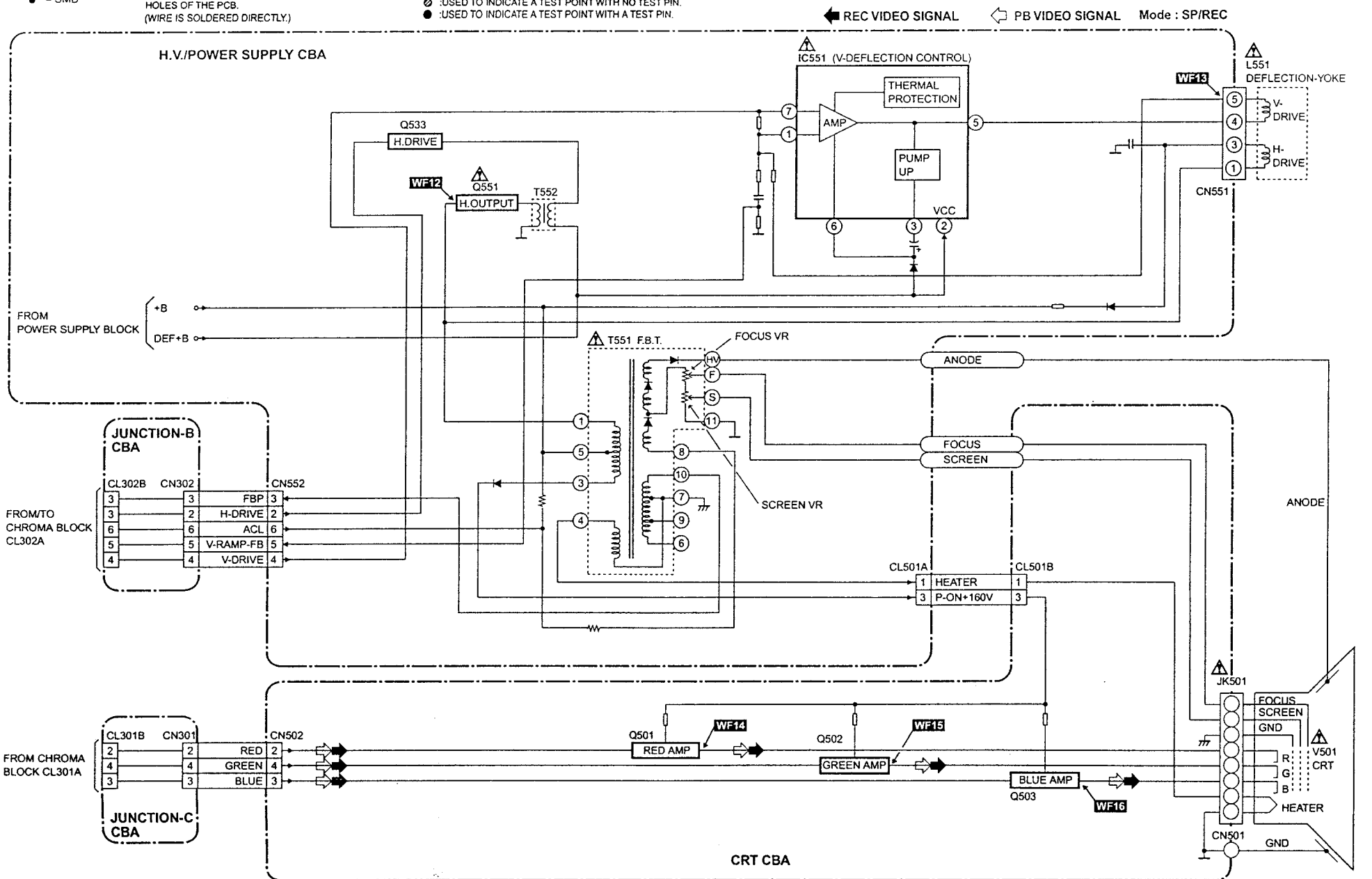
# CRT/H.V. Block Diagram

NOTE FOR WIRE CONNECTORS:  
 1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
 (CAN DISCONNECT AND RECONNECT.)  
 2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER  
 HOLES OF THE PCB.  
 (WIRE IS SOLDERED DIRECTLY.)

• = SMD

## TEST POINT INFORMATION

- ① : INDICATES A TEST POINT WITH A JUMPER WIRE ACROSS A HOLE IN THE PCB.
- ② : USED TO INDICATE A TEST POINT WITH A COMPONENT LEAD ON FOIL SIDE.
- ③ : USED TO INDICATE A TEST POINT WITH NO TEST PIN.
- ④ : USED TO INDICATE A TEST POINT WITH A TEST PIN.



1-7-9

1-7-10

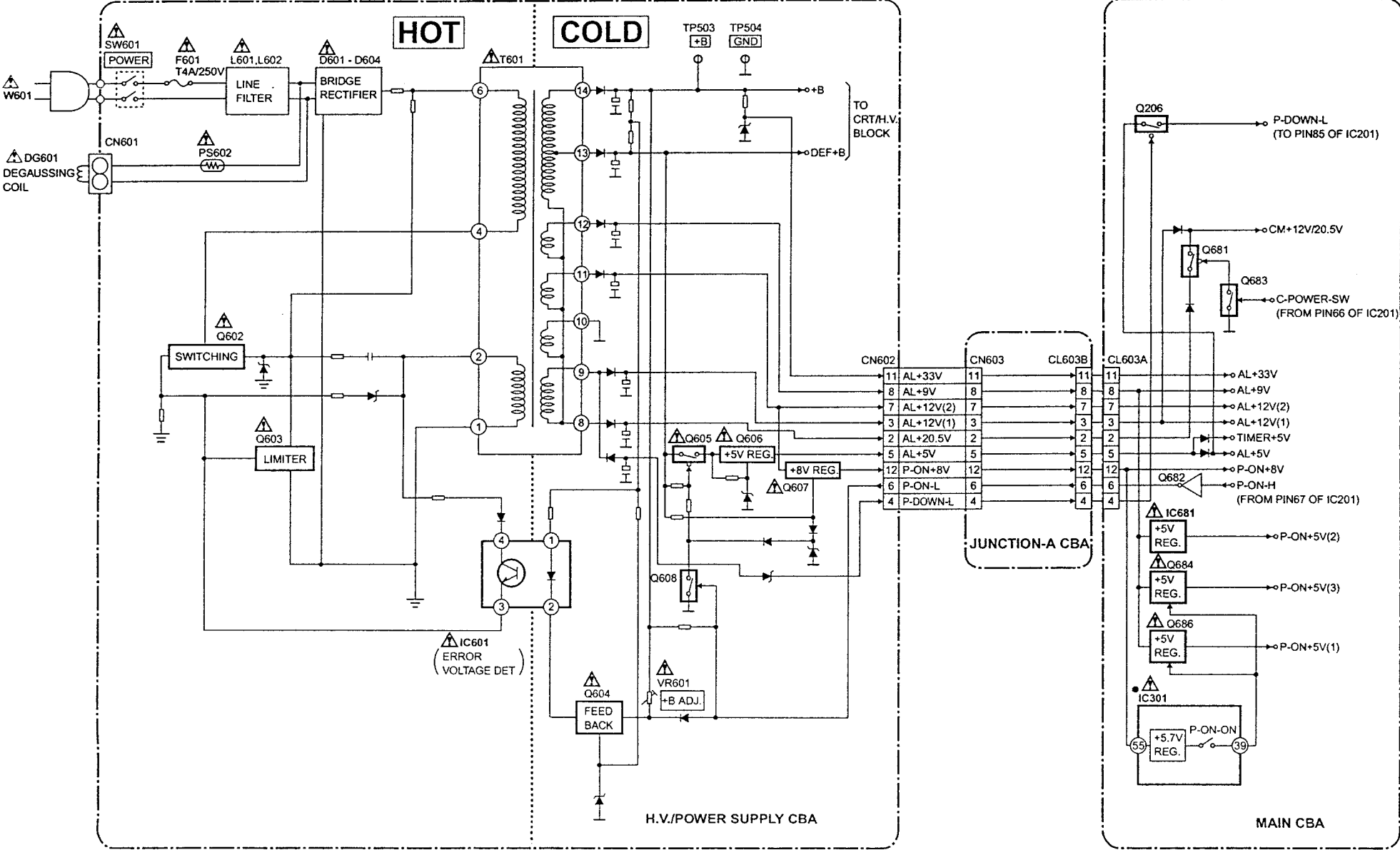
T6400BLCRT

# Power Supply Block Diagram

**CAUTION !**  
Fixed voltage power supply circuit is used in this unit.  
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.  
Otherwise it may cause some components in the power supply circuit to fail.

**CAUTION**  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,  
REPLACE ONLY WITH THE SAME TYPE T4A/250V FUSE.

**NOTE :**  
The voltage for parts in hot circuit is measured using  
hot GND as a common terminal.



# MECHANICAL TROUBLE INDICATOR

## 1, Each Malfunction Indication

If the MONITOR is turned ON right after the Mechanical Malfunction occurs or POWER SAFETY/X-RAY is turned ON, display the following character to show Malfunction after the EJECT display.

Immediately preceding Malfunction	Display character
REEL Malfunction	R
DRUM Malfunction	D
CASSETTE LOADING Malfunction	C
TAPE LOADING Malfunction	T
P-SAFETY 1	1
P-SAFETY 2	2
X-RAY	X

Example: If REEL Malfunction

EJECT R

## 2, Each Malfunction evaluation method

### X-RAY protect

If X-RAY port becomes continuously 2.5V or more for 120 msec. (4 times 40 msec. interval), the unit shall immediately turn OFF the POWER/MONITOR and switch over to the Mechanical Malfunction mode with POWER OFF.

(To return from this mode shall become possible only by POWER Key as in the case of the Mechanical Malfunction).

## POWER SAFETY

### 1) POWER SAFETY 1

If P-SAFETY 1 port becomes continuously 2.5V or less for 120 msec. (4 times 40 msec. interval) when MONITOR is ON, the unit shall be assumed to be the Power Malfunction 1 and immediately turn OFF the POWER/MONITOR and switch over the Mechanical Malfunction mode with POWER OFF.

(To return from this mode shall become possible only by POWER Key as in the case of the Mechanical Malfunction).

\* However the POWER SAFETY 1 function shall be disabled during 500 msec. right after the MONITOR turns ON.

### 2) POWER SAFETY 2

If P-SAFETY 2 port becomes continuously 2.5V or less for 120 msec. (4 times 40 msec. interval) when P-ON-H port is ON, the unit shall be assumed to be the Power Malfunction 2 and immediately turn OFF the POWER/MONITOR and switch over the Mechanical Malfunction mode with POWER OFF.

(To return from this mode shall become possible only by POWER Key as in the case of the Mechanical Malfunction).

\* However the POWER SAFETY 2 function shall be disabled during 500 msec. right after the P-ON-H port turns ON.

## Mechanical Malfunction determination

### 1) REEL Malfunction detection

Countermeasure for REEL and CAPSTAN motor rotation malfunction (Except CASSETTE LOADING function)

After the Malfunction detection with REEL/CAPSTAN sensor, the unit shall switch over to STOP (B) and be REEL Mechanical Malfunction.

- If the T-REEL pulse is not impressed after a lapse of 7 sec. at SP, 14 sec. at LP, or more in the REEL Rotation Mode like PLAY/REC, FS/RS Mode, and the T-REEL or S-REEL pulse is not impress after a lapse of 4 sec. or more in REEL Rotation Mode of FF/REW, it shall be assumed to stop the rotation and switch over to STOP (B) position, then POWER be turned OFF and the unit be REEL Mechanical Malfunction. (T-REEL and S-REEL for the models on S-REEL and only T-REEL for other models)

- If the C-FG pulse is not impressed for a lapse of 1 sec. or more during the CAPSTAN MOTOR rotation, it shall be MOTOR Rotation Malfunction (REEL Malfunction).

### 2) DRUM Malfunction detection

Detect the DRUM rotation at the D-FG input terminal.

If the variation of D-FG input level is not detected for a lapse of 1 sec. or more when D-CONT is "H", it shall be assumed to be Rotation Malfunction and be DRUM Malfunction.

When detect Drum Malfunction, POWER shall be turned OFF after the unit switches over to STOP (B) Mode.

### 3) Countermeasure for TAPE LOADING Malfunction

Detect the Malfunction with the LOADING Switch.

#### a) TAPE LOADING Malfunction

If LD-SW does not go to the established position after a lapse of 7 sec. or more from TAPE LOADING or TAPE UNLOADING start, the LOADING function shall immediately be stopped and POWER be turned OFF, and inform the Timer about the LOADING Mechanical Malfunction.

#### b) LD-SW Position Malfunction at each mode

When the unit operates at each mode, even if the LD-SW position changes from the established one in its mode, it keeps the function according to its mode.

### 4) Countermeasure for CASSETTE LOADING Malfunction

#### a) CASSETTE IN operating Malfunction

If LD-SW does not go to SB position after a lapse of 5 sec. or more from the CASSETTE insertion start, the unit starts the CASSETTE OUT operation.

After switch over to CASSETTE OUT operation and then a laps of 5 sec. or more from the CASSETTE OUT operation start, if LD-SW does not go to the EJ position or if START Sensor and END Sensor does not turn "ON" at the EJ position, the unit starts again to insert CASSETTE.

(However in S-INH state, the START/END Sensor shall be disabled).

#### b) CASSETTE OUT operating Malfunction

After a lapse of 5 sec. or more from CASSETTE OUT operation start, if LD-SW does not go to the EJ position or if START Sensor and END Sensor does not turn "ON" at the EJ position, the unit starts to insert CASSETTE.

(However in S-INH state, the START/END Sensor shall be disabled).



When the unit switches over to CASSETTE insertion at CASSETTE IN or CASSETTE OUT Malfunction, if LD-SW does not go to the SB position after a lapse of 5 sec. or more from CASSETTE insertion start, the function shall immediately be stopped and POWER be turned OFF, and the unit be CASSETTE LOADING Malfunction.

- When POWER is turned ON, if the CL position or GC position cannot be detected after 5 sec. LD-REV operation and 5 sec. LD-FWD operation, the function shall immediately be stopped and POWER be turned OFF, and the unit be CASSETTE LOADING Malfunction.

- When POWER is turned ON without CASSETTE (EJ position) and LD-SW is monitored all the time, if the CL or GC position is detected continuously for 1 sec. or more, the POWER shall be turned OFF and the unit be CASSETTE LOADING Malfunction.

## Countermeasure for Mechanical Malfunction

If the unit detects Mechanical Malfunction, turn the POWER OFF. If the unit is Mechanical Malfunction, Key input except POWER key shall be disabled and CASSETTE insertion disabled. When POWER Key is entered, the POWER is turned ON and the unit switches over the EJECT Mode. (Return with POWER ON)

# SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

## Standard Notes

### WARNING

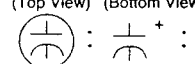
Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "△" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.


### Capacitor Temperature Markings


Mark	Capacity change rate	Standard temperature	Temperature range
(B)	±10%	20°C	-25~+85°C
(F)	+30 - 80%	20°C	-25~+85°C
(SR)	±15%	20°C	-25~+85°C
(Y)	±22.5%	20°C	-25~+85°C


Capacitors and transistors are represented by the following symbols.


### < PCB Symbols >


(Top View) (Bottom View)  
 : Electrolytic Capacitor

(Bottom View)  
 : Transistor or Digital Transistor

(Top View)  
 NPN Transistor

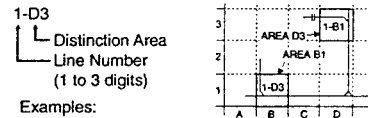
(Top View)  
 NPN Digital Transistor

(Top View)  
 PNP Transistor

(Top View)  
 PNP Digital Transistor

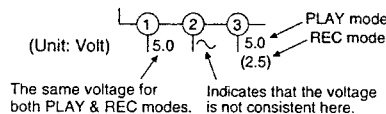
## Notes:

- Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
- To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.
- Prefix symbol "CN" means "connector" (can disconnect and reconnect).  
Prefix symbol "CL" means "wire-solder holes of the PCB" (wire is soldered directly).
- How to read converged lines.

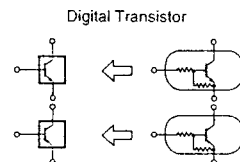


Examples:

- "1-D3" means that line number "1" goes to area "D3."
- "1-B1" means that line number "1" goes to area "B1."
- All resistance values are indicated in ohms ( $K=10^3$ ,  $M=10^6$ ).
- Resistor wattages are 1/4W or 1/6W unless otherwise specified.
- All capacitance values are indicated in  $\mu F$  ( $P=10^{-6} \mu F$ ).
- All voltages are DC voltages unless otherwise specified.
- Voltage indications for PLAY and REC modes on the schematics are as shown below.



### < Schematic Diagram Symbols >

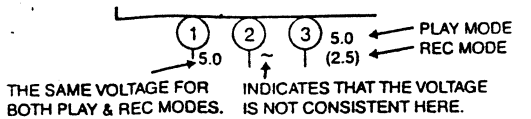


## Main 1/5 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		DIODES		RESISTORS		RESISTORS	
C203	B-3	D201	B-3	R224	B-2	R271	B-2
C205	B-3	D202	B-2	R226	B-1	R272	B-3
C207	B-1	D204	B-2	R227	B-1	R273	B-2
C208	B-1	D205	B-1	R228	B-1	R274	B-2
C209	C-1	D206	D-3	R229	B-1	R275	D-2
C210	C-1	D210	D-2	R230	B-1	R276	D-2
C211	B-1	D211	D-2	R231	C-1	R277	D-2
C212	B-1	D212	D-2	R232	C-1	R278	D-2
C213	B-1	D213	A-4	R233	C-1	R279	D-2
C214	B-1	D214	A-4	R234	C-1	R280	D-2
C217	C-1	ICS		R235	D-2	R281	C-1
C218	C-1	IC201	C-3	R236	D-2	R282	D-2
C221	D-2	IC202	D-1	R237	D-2	R287	B-1
C222	D-2	COIL		R238	D-2	R288	E-1
C223	D-2	L201	D-2	R239	D-2	R289	E-1
C224	D-2	TRANSISTORS		R240	D-2	SWITCHES	
C225	D-2	Q204	B-1	R241	D-3	SW201	B-4
C226	D-2	Q205	D-4	R242	D-3	SW202	A-4
C227	D-3	Q206	C-4	R243	D-3	SW203	A-4
C228	D-3	RESISTORS		R244	D-3	SW204	A-4
C229	D-3	R201	B-4	R248	D-3	SW205	A-4
C230	E-3	R202	B-4	R249	D-3	SW206	B-4
C231	D-4	R203	B-3	R250	D-3	SW207	A-4
C233	D-4	R204	B-4	R251	D-4	SW208	A-4
C234	D-4	R205	B-3	R252	D-4	SW209	A-4
C235	C-4	R206	B-3	R253	D-3	SW210	A-4
C236	C-4	R207	B-4	R254	C-4	SW211	B-1
C237	C-4	R208	B-4	R255	C-4	SW212	A-4
C238	C-4	R209	A-4	R256	C-4	TEST POINT	
C239	C-4	R210	A-4	R257	B-3	TP001	C-4
C240	C-4	R211	A-4	R258	B-4	CRYSTAL OSCILLATORS	
C241	C-4	R212	A-4	R259	B-4	X201	C-1
C242	D-4	R213	B-4	R260	A-4	X202	C-1
C243	D-4	R214	B-4	R261	A-4	MISCELLANEOUS	
C244	C-4	R215	A-4	R262	A-4	PI201	D-4
C245	C-4	R216	A-4	R263	A-4	RS201	B-1
C248	B-1	R217	A-4	R264	A-4		
C253	B-2	R218	B-3	R265	D-1		
C254	C-4	R219	B-3	R266	D-1		
C255	C-4	R220	B-3	R267	E-1		
C256	C-1	R221	B-3	R268	E-3		
CONNECTOR		R222	B-3	R269	E-3		
CN201	F-5	R223	B-2	R270	B-1		

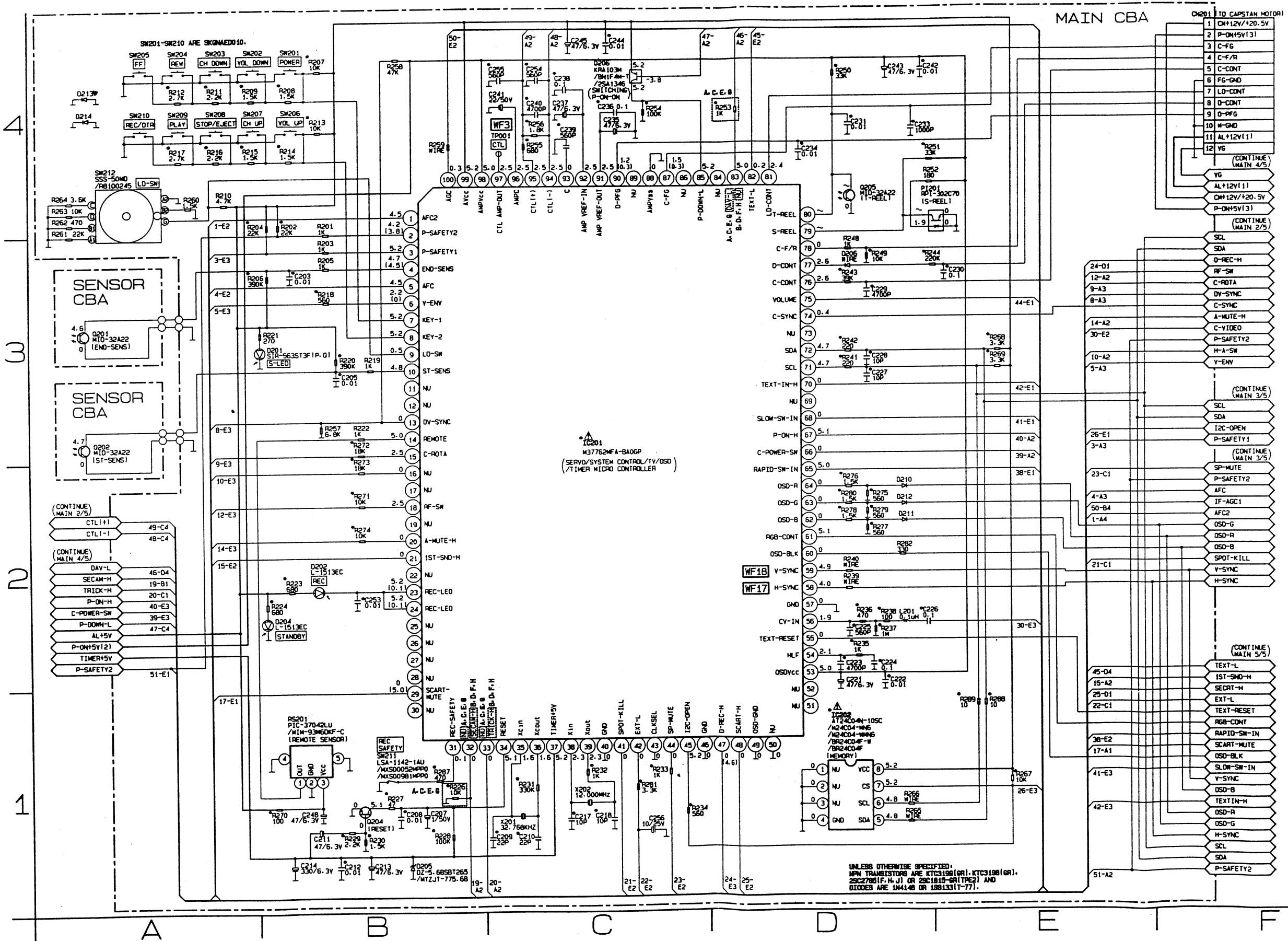
Main 1/5 Schematic Diagram

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:



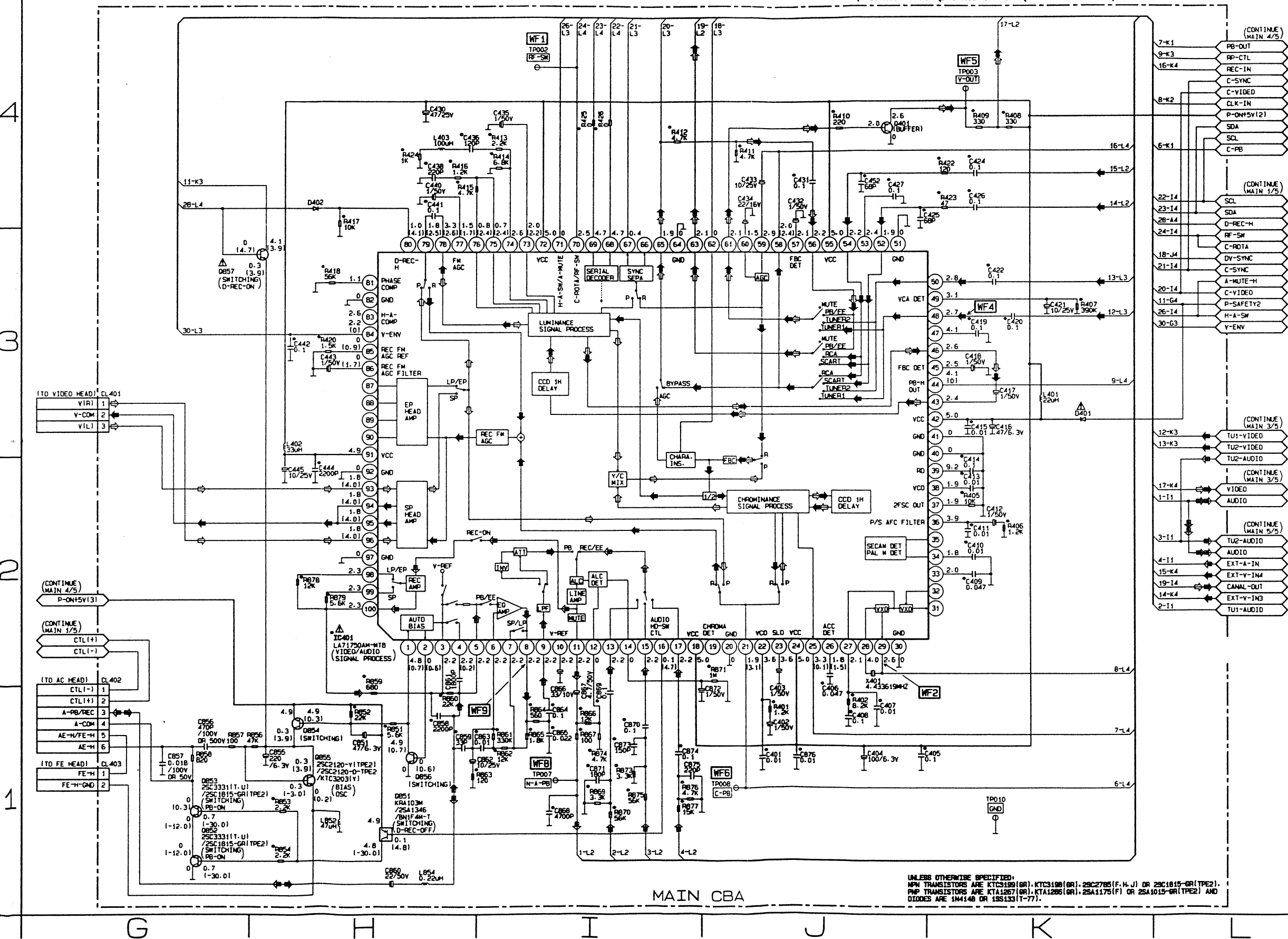
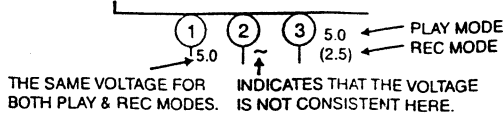
Comparison Chart of Models and Marks

MODEL	MARK
14PV374/07	A
14PV375/07	B
14PV374/01	C
14PV375/01	D
14PV374/58	E
14PV375/58	F
14PV374/39	G
14PV375/39	H



Main 2/5 Schematic Diagram

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:



Main 2/5 Schematic Diagram Parts Location Guide

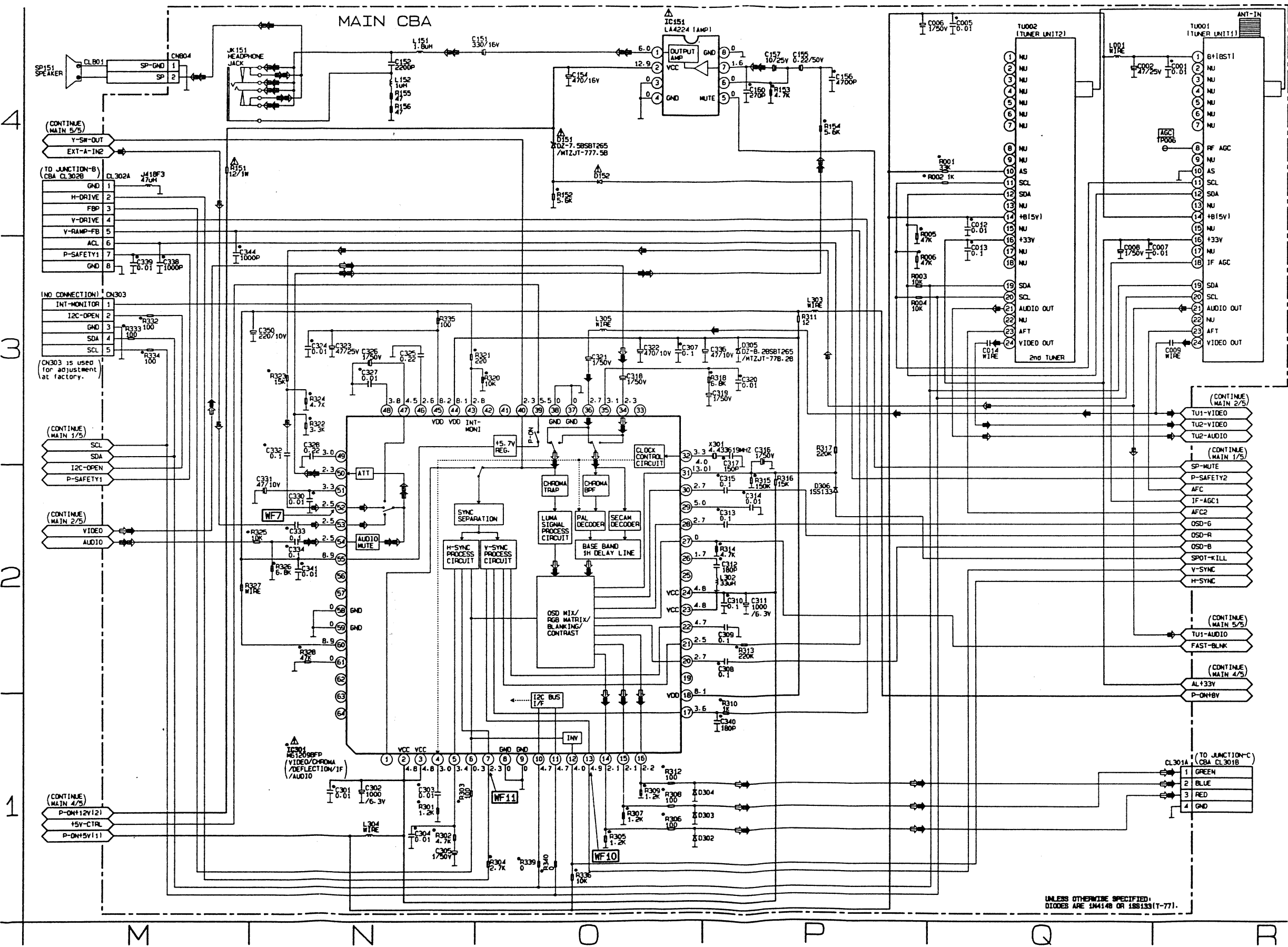
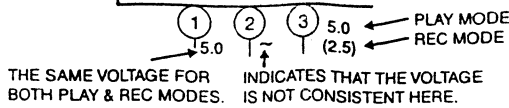
Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		COILS		RESISTORS	
C401	J-1	C444	H-2	L403	H-4	R854	H-1
C402	J-1	C445	H-2	L852	H-1	R856	H-1
C403	J-2	C452	J-4	L854	H-1	R857	G-1
C404	J-1	C851	H-1	TRANSISTORS		R858	G-1
C405	J-1	C855	H-1	Q401	J-4	R859	H-1
C406	J-2	C856	G-1	Q851	H-1	R860	H-1
C407	J-1	C857	G-1	Q852	G-1	R861	I-1
C408	J-1	C858	H-1	Q853	G-1	R862	I-1
C409	K-2	C859	H-1	Q854	H-1	R863	H-1
C410	K-2	C860	H-1	Q855	H-1	R864	I-1
C411	K-2	C861	H-2	Q856	H-1	R865	I-1
C412	K-2	C862	H-1	Q857	H-3	R866	I-1
C413	K-2	C863	I-1	RESISTORS		R867	I-1
C414	K-2	C864	I-1	R401	J-1	R869	I-1
C415	K-3	C865	I-1	R402	J-1	R870	I-1
C416	K-3	C866	I-2	R405	K-2	R871	J-2
C417	K-3	C867	I-1	R406	K-2	R873	I-1
C418	K-3	C868	I-1	R407	K-3	R874	I-1
C419	K-3	C869	I-1	R408	K-4	R875	I-1
C420	K-3	C870	I-1	R409	K-4	R876	I-1
C421	K-3	C871	I-1	R410	J-4	R877	I-1
C422	K-3	C872	J-1	R411	J-4	R878	H-2
C424	K-4	C873	I-1	R412	I-4	R879	H-2
C425	J-4	C874	I-1	R413	I-4	CRYSTAL OSCILATOR	
C426	K-4	C875	I-1	R414	I-4	X401	J-2
C427	J-4	C876	J-1	R415	H-4	TEST POINTS	
C430	H-4	CONNECTORS		R416	H-4	TP002	I-4
C431	J-4	CL401	G-3	R417	H-4	TP003	K-4
C432	J-4	CL402	G-1	R418	H-3	TP007	I-1
C433	J-4	CL403	G-1	R420	H-3	TP008	J-1
C434	J-4	DIODES		R422	K-4	TP010	K-1
C435	I-4	D401	K-3	R423	K-4		
C436	H-4	D402	H-4	R424	H-4		
C438	H-4	IC		R425	I-4		
C440	H-4	IC401	H-2	R426	I-4		
C441	H-4	COILS		R851	H-1		
C442	H-3	L401	K-3	R852	H-1		
C443	H-3	L402	H-3	R853	H-1		

Main 3/5 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		RESISTORS	
C001	R-4	C332	N-3	R155	N-4
C002	Q-4	C333	N-2	R156	N-4
C005	Q-4	C334	N-2	R301	N-1
C006	P-4	C336	P-3	R302	N-1
C007	Q-3	C338	M-3	R303	N-1
C008	Q-3	C339	M-3	R304	O-1
C009	R-3	C340	P-1	R305	O-1
C012	Q-4	C341	N-2	R306	O-1
C013	Q-3	C344	M-3	R307	O-1
C014	Q-3	C350	N-3	R308	O-1
C151	O-4	CONNECTORS		R309	O-1
C152	N-4	CL301A	R-1	R310	P-1
C154	O-4	CL302A	M-4	R311	P-3
C155	P-4	CN303	M-3	R312	O-1
C156	P-4	CN804	M-4	R313	P-2
C157	P-4	DIODES		R314	P-2
C160	P-4	D151	O-4	R315	P-2
C301	N-1	D152	O-4	R316	P-2
C302	N-1	D302	P-1	R317	P-3
C303	N-1	D303	P-1	R318	P-3
C304	N-1	D304	P-1	R320	O-3
C305	N-1	D305	P-3	R321	N-3
C307	O-3	D306	P-2	R322	N-3
C308	P-2	IC		R323	N-3
C309	P-2	IC151	O-4	R324	N-3
C310	P-2	IC301	N-1	R325	N-2
C311	P-2	COILS		R326	N-2
C312	P-2	J418F3	M-4	R327	M-2
C313	P-2	L001	Q-4	R328	N-2
C314	P-2	L151	N-4	R332	M-3
C315	P-2	L152	N-4	R333	M-3
C316	P-3	L302	P-2	R334	M-3
C317	P-3	L303	P-3	R335	N-3
C318	O-3	L304	N-1	R336	O-1
C319	P-3	L305	O-4	R339	O-1
C320	P-3	RESISTORS		R340	O-1
C321	O-3	R001	Q-4	CRYSTAL OSCILATOR	
C322	O-3	R002	Q-4	X301	P-3
C323	N-3	R003	P-3	MISCELLANEOUS	
C324	N-3	R004	P-3	JK151	M-4
C325	N-3	R005	P-3	TU001	R-4
C326	N-3	R006	P-3	TU002	Q-4
C327	N-3	R151	M-4	TEST POINTS	
C328	N-3	R152	Q-4	TP006	R-4
C330	N-2	R153	P-4		
C331	N-2	R154	P-4		

Main 3/5 Schematic Diagram

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:



A vertical axis with tick marks labeled 1, 2, 3, and 4.

THE SAME VOLTAGE FOR BOTH PLAY & REC MODES.      INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.

MODEL	MARK
14PV374/07	A
14PV375/07	B
14PV374/01	C
14PV375/01	D
14PV374/58	E
14PV375/58	F
14PV374/39	G
14PV375/39	H



**Main 4/5 Schematic Diagram Parts Location Guide**

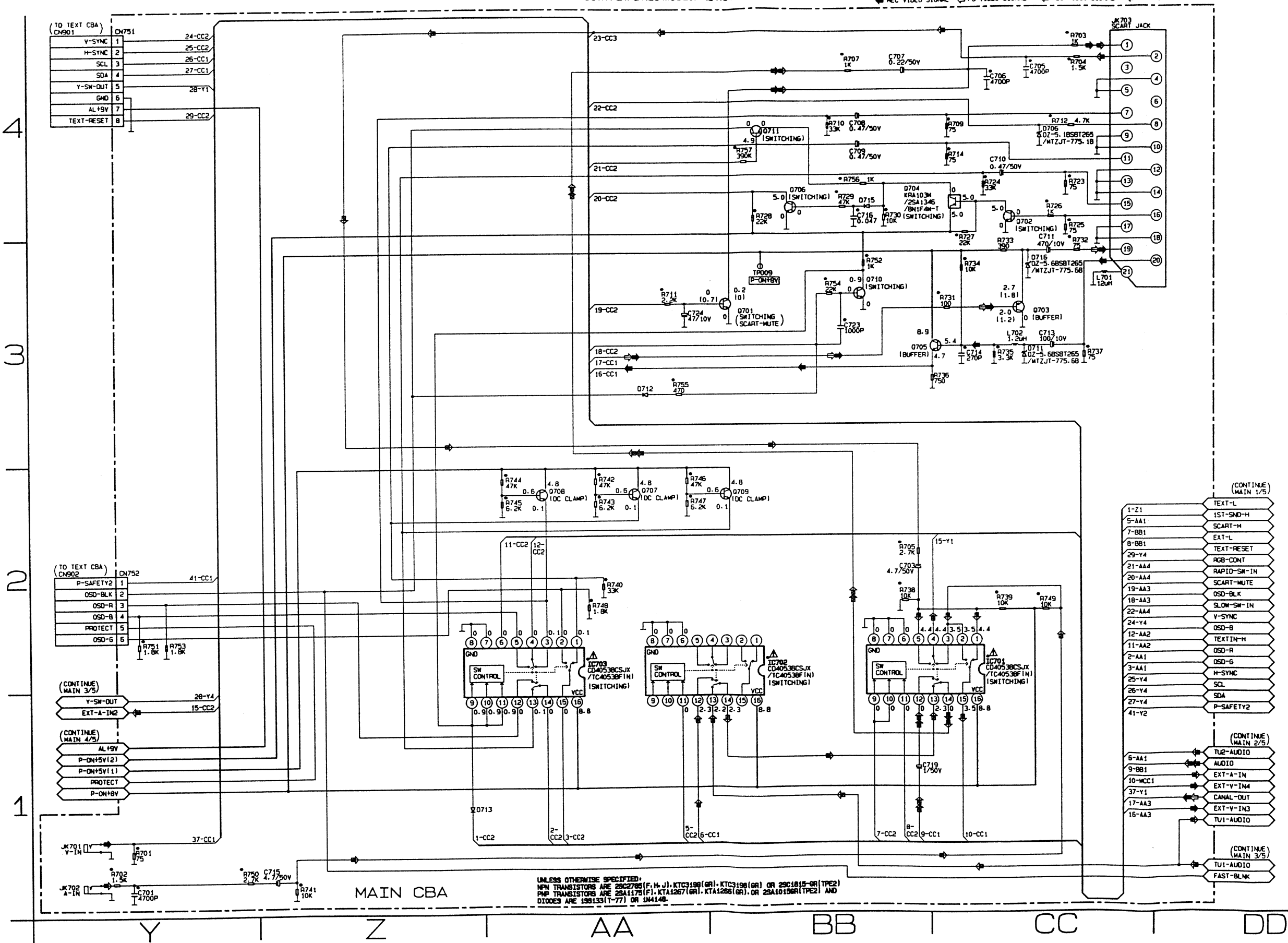
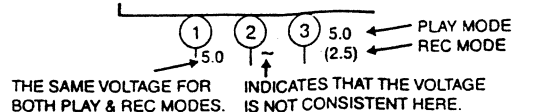
Ref No.	Position	Ref No.	Position
CAPACITORS		DIODES	
C101	W-3	D694	T-2
C102	W-3	ICS	
C103	V-4	IC101	V-4
C104	V-4	IC471	T-3
C105	W-4	IC681	T-2
C106	V-4	COILS	
C471	T-3	L681	T-1
C472	T-3	L682	T-2
C473	T-3	TRANSISTORS	
C474	T-3	Q681	T-1
C475	U-3	Q682	T-1
C476	U-3	Q683	T-1
C478	U-3	Q684	S-2
C479	U-4	Q685	U-2
C480	U-4	Q686	U-1
C481	U-4	RESISTORS	
C483	U-3	R101	W-3
C484	T-4	R102	W-3
C485	T-4	R103	W-4
C486	T-4	R104	W-4
C681	T-1	R105	W-4
C682	U-2	R106	V-4
C683	T-2	R107	W-3
C684	T-2	R108	W-3
C687	S-2	R471	T-3
C688	U-1	R681	S-1
C689	T-1	R682	T-1
C691	U-2	R683	T-2
C692	U-2	R684	U-1
C694	W-2	R685	T-1
C695	T-1	R686	T-1
CONNECTOR		R687	T-1
CL603A	S-2	R690	T-2
DIODES		R691	S-2
D471	T-3	R692	U-2
D681	S-1	R693	T-2
D682	T-1	R694	T-2
D686	U-3	R696	T-1
D687	U-2	R697	W-1
D688	U-2	R698	W-1
D690	U-2	MISCELLANEOUS	
D691	U-2	CF101	V-3
D693	W-1		

**Main 5/5 Schematic Diagram Parts Location Guide**

Ref No.	Position	Ref No.	Position
CAPACITORS		RESISTORS	
C701	Y-1	R704	CC-4
C703	BB-2	R705	BB-2
C705	CC-4	R707	AA-4
C706	CC-4	R709	CC-4
C707	AA-4	R710	BB-4
C708	BB-4	R711	AA-3
C709	BB-4	R712	CC-4
C710	CC-4	R714	CC-4
C711	CC-3	R723	CC-4
C713	CC-3	R724	CC-4
C714	CC-3	R725	CC-4
C715	Z-1	R726	CC-4
C716	BB-4	R727	CC-3
C719	BB-1	R728	BB-4
C723	BB-3	R729	BB-4
C724	AA-3	R730	BB-4
CONNECTOR		R731	CC-3
CN751	Y-4	R732	CC-3
CN752	Y-2	R733	CC-3
DIODES		R734	CC-3
D706	CC-4	R735	CC-3
D711	CC-3	R736	CC-3
D712	AA-3	R737	CC-3
D713	Z-1	R738	BB-2
D715	BB-4	R739	CC-2
D716	CC-3	R740	AA-2
ICS		R741	Z-1
IC701	CC-2	R742	AA-2
IC702	BB-2	R743	AA-2
IC703	AA-2	R744	AA-2
COILS		R745	AA-2
L701	CC-3	R746	AA-2
L702	CC-3	R747	AA-2
TRANSISTORS		R748	AA-2
Q701	BB-3	R749	CC-2
Q702	CC-4	R750	Y-1
Q703	CC-3	R751	Y-2
Q704	BB-4	R752	BB-3
Q705	BB-3	R753	Y-2
Q706	BB-4	R754	BB-3
Q707	AA-2	R755	AA-3
Q708	AA-2	R756	BB-4
Q709	BB-2	R757	BB-4
Q710	BB-3	TEST POINTS	
Q711	BB-4	TP009	BB-3
RESISTORS		MISCELLANEOUS	
R701	Y-1	JK701	Y-1
R702	Y-1	JK702	Y-1
R703	CC-4	JK703	CC-4

Main 5/5 Schematic Diagram

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:



(CONTINUE MAIN 1/5)

1-Z1	TEXT-L
5-AA1	1ST-SND-H
7-BB1	SCART-H
8-BB1	EXT-L
29-Y4	TEXT-RESET
21-AA4	RGB-CONT
20-AA4	RAPID-SW-IN
19-AA3	SCART-MUTE
18-AA3	OSD-BLK
22-AA4	SLOW-SW-IN
24-Y4	Y-SYNC
12-AA2	OSD-B
11-AA2	TEXTIN-H
2-AA1	OSD-R
3-AA1	OSD-G
25-Y4	H-SYNC
26-Y4	SCL
27-Y4	SDA
41-Y2	P-SAFETY2

(CONTINUE MAIN 2/5)

5-AA1	TU2-AUDIO
9-BB1	AUDIO
10-MCC1	EXT-A-IN
37-Y1	EXT-V-IN4
17-AA3	CANAL-OUT
16-AA3	EXT-V-IN3

(CONTINUE MAIN 3/5)

16-AA3	TU1-AUDIO
	FAST-BLANK

H.V./Power Supply 1/2 Schematic Diagram

**CAUTION !**  
Fixed voltage ( or Auto voltage selectable ) power supply circuit is used in this unit.  
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.  
Otherwise it may cause some components in the power supply circuit to fail.

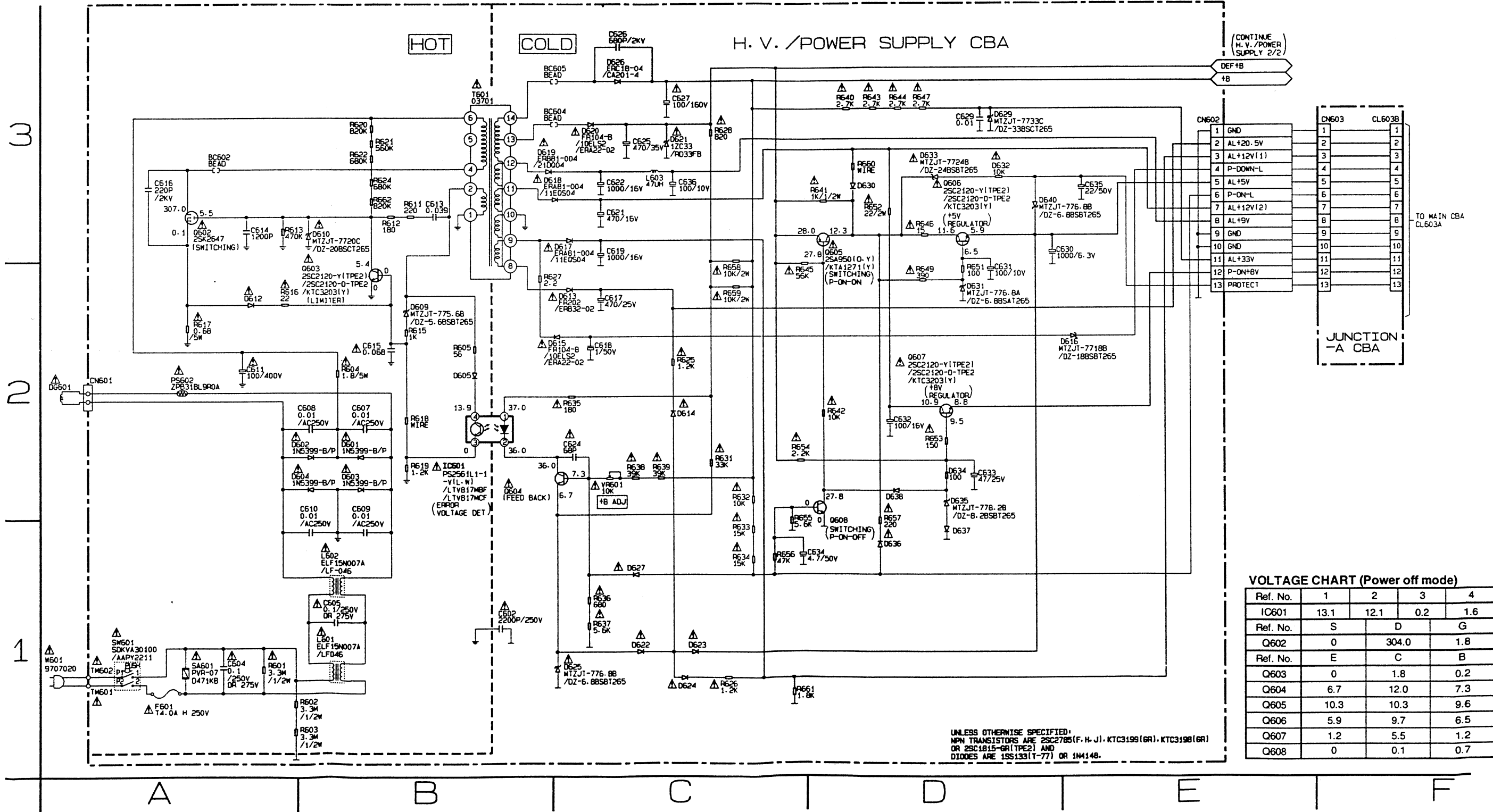
**CAUTION**  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,  
REPLACE ONLY WITH THE SAME TYPE FUSE.

**NOTE:**  
The voltage for parts in hot circuit is measured  
using hot GND as a common terminal.

Voltage indications for PLAY and REC modes on  
the Schematic Diagrams are as shown below:

1 2 3 5.0 5.0  
5.0 5.0 (2.5)  
PLAY MODE  
REC MODE

THE SAME VOLTAGE FOR BOTH PLAY & REC MODES. INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.



H.V./Power Supply 1/2 Schematic Diagram Parts Location Guide

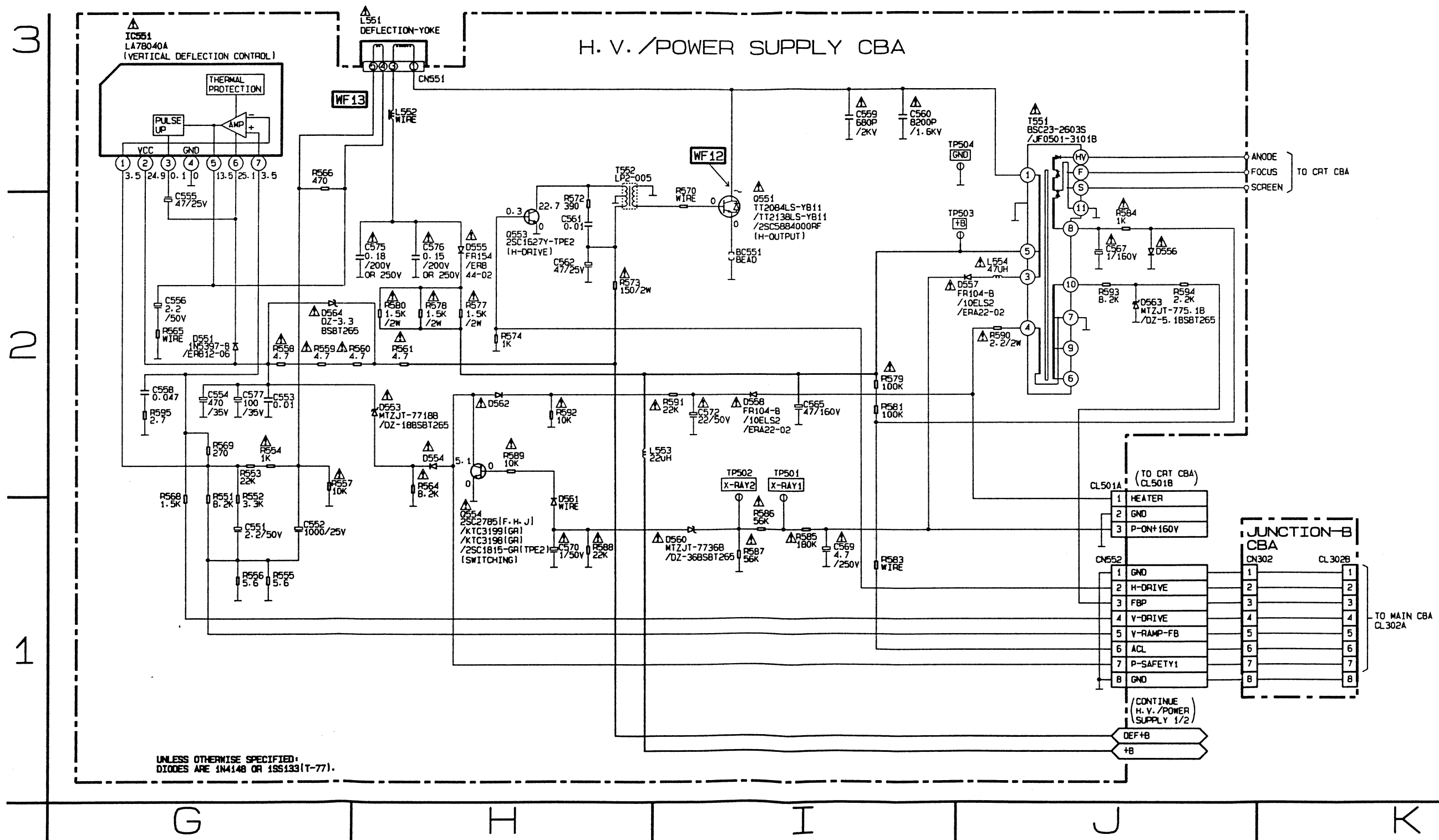
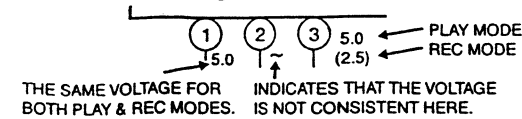
Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		DIODES		RESISTORS	
C602	B-1	D621	C-3	R624	B-3
C604	A-1	D622	C-1	R625	C-2
C605	B-1	D623	C-1	R626	C-1
C607	B-2	D624	C-1	R627	B-2
C608	B-2	D625	C-1	R628	C-3
C609	B-2	D626	C-3	R631	C-2
C610	B-2	D627	C-1	R632	C-2
C611	A-2	D629	D-3	R633	C-1
C613	B-3	D630	D-3	R634	C-1
C614	A-3	D631	D-2	R635	C-2
C615	B-2	D632	D-3	R636	C-1
C616	A-3	D633	D-3	R637	C-1
C617	C-2	D634	D-2	R638	C-2
C618	C-2	D635	D-2	R639	C-2
C619	C-3	D636	D-1	R640	D-3
C621	C-3	D637	D-1	R641	D-3
C622	C-3	D638	D-2	R642	D-2
C624	C-2	D640	D-3	R643	D-3
C625	C-3	IC		R644	D-3
C626	C-3	IC601	B-2	R645	C-2
C627	C-3	COILS		R646	D-3
C629	D-3	L601	B-1	R647	D-3
C630	D-3	L602	B-1	R649	D-2
C631	D-2	L603	C-3	R651	D-2
C632	C-2	TRANSISTORS		R652	D-3
C633	D-2	Q602	A-3	R653	C-2
C634	D-1	Q603	B-2	R654	C-2
C635	E-3	Q604	B-2	R655	C-1
C636	C-3	Q605	D-3	R656	C-1
CONNECTORS		Q606	D-3	R657	D-1
CN601	A-2	Q607	D-2	R658	C-2
CN602	E-3	Q608	D-1	R659	C-2
DIODES		RESISTORS		R660	D-3
D601	B-2	R601	A-1	R661	C-1
D602	B-2	R602	B-1	R662	B-3
D603	B-2	R603	B-1	SWITCH	
D604	B-2	R604	B-2	SW601	A-1
D605	B-2	R605	B-2	MISCELLANEOUS	
D609	B-2	R611	B-3	BC602	A-3
D610	B-3	R612	B-3	BC604	C-3
D612	A-2	R613	A-3	BC605	C-3
D613	C-2	R615	B-2	F601	A-1
D614	C-2	R616	A-2	PS602	A-2
D615	C-2	R617	A-2	SA601	A-1
D616	E-2	R618	B-2	T601	B-3
D617	C-3	R619	B-2	TM601	A-1
D618	C-3	R620	B-3	TM602	A-1
D619	B-3	R621	B-3	VARIABLE RESISTOR	
D620	C-3	R622	B-3	VR601	C-2

H.V./Power Supply 2/2 Schematic Diagram Parts Location Guide

Ref No.	Position	Ref No.	Position
CAPACITORS		RESISTORS	
C551	G-1	R552	G-1
C552	G-1	R553	G-2
C553	G-2	R554	G-2
C554	G-2	R555	G-1
C555	G-2	R556	G-1
C556	G-2	R557	G-2
C558	G-2	R558	G-2
C559	I-3	R559	G-2
C560	I-3	R560	H-2
C561	H-2	R561	H-2
C562	H-2	R564	H-2
C565	I-2	R565	G-2
C567	J-2	R566	G-3
C569	I-1	R568	G-1
C570	H-1	R569	G-2
C572	I-2	R570	I-2
C575	H-2	R572	H-2
C576	H-2	R573	H-2
C577	G-2	R574	H-2
CONNECTORS		R577	H-2
CN551	H-3	R578	H-2
CN552	J-1	R579	I-2
DIODES		R580	H-2
D551	G-2	R581	I-2
D553	H-2	R583	I-1
D554	H-2	R584	J-2
D555	H-2	R585	I-1
D556	J-2	R586	I-1
D557	J-2	R587	I-1
D558	I-2	R588	H-1
D560	I-1	R589	H-2
D561	H-1	R590	J-2
D562	H-2	R591	I-2
D563	J-2	R592	H-2
D564	G-2	R593	J-2
IC		R594	J-2
IC551	G-3	R595	G-2
COILS		MISCELLANEOUS	
L552	H-3	BC551	I-2
L553	I-2	T551	J-3
L554	J-2	T552	H-3
TRANSISTORS		TEST POINTS	
Q551	I-2	TP501	I-2
Q553	H-2	TP502	I-2
Q554	H-1	TP503	J-2
RESISTORS		TP504	J-3
R551	G-1		

## H.V./Power Supply 2/2 Schematic Diagram

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:

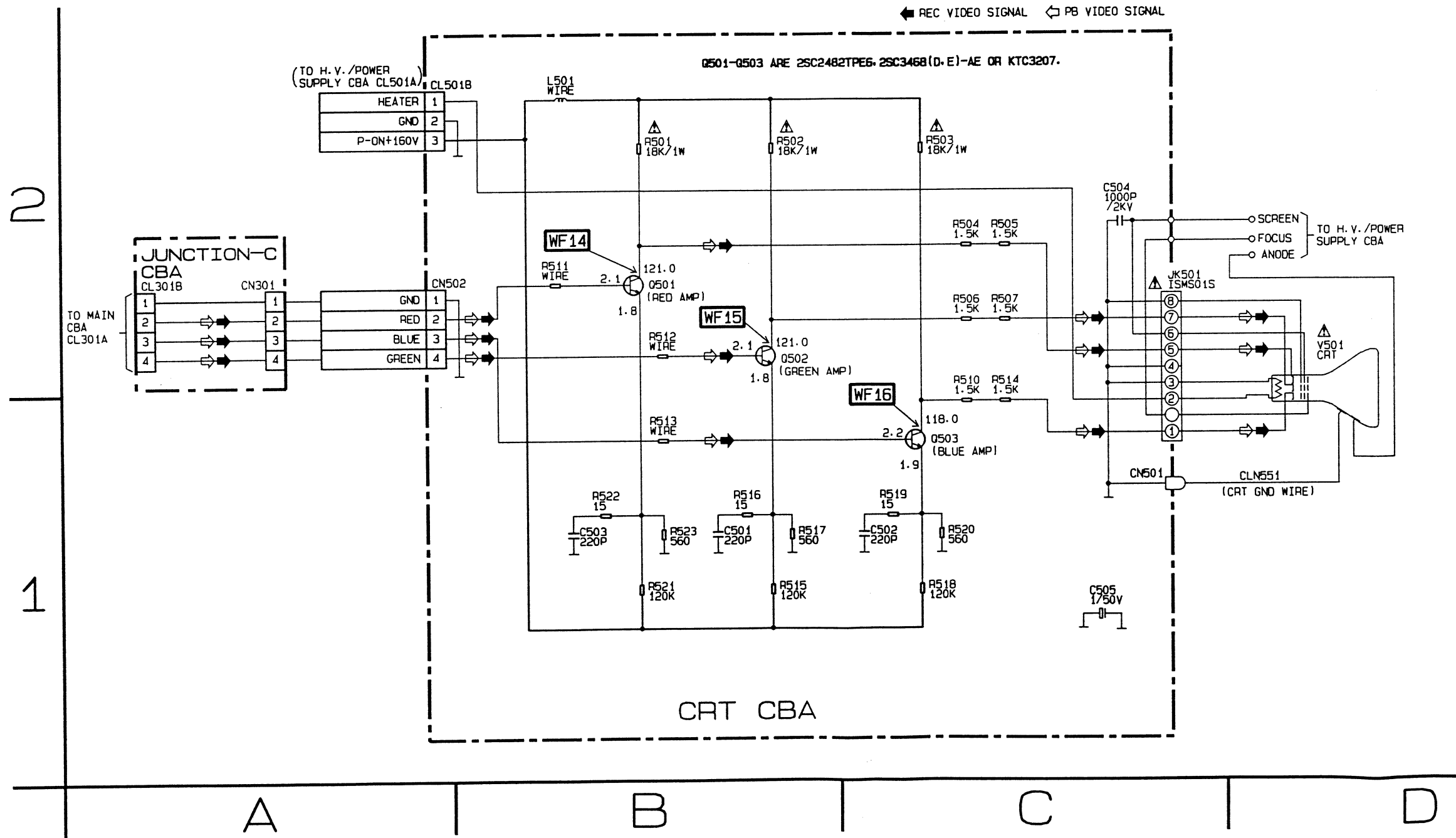


CRT Schematic Diagram

Voltage indications for PLAY and REC modes on the Schematic Diagrams are as shown below:

1 2 3 5.0 5.0 5.0  
← PLAY MODE  
← REC MODE

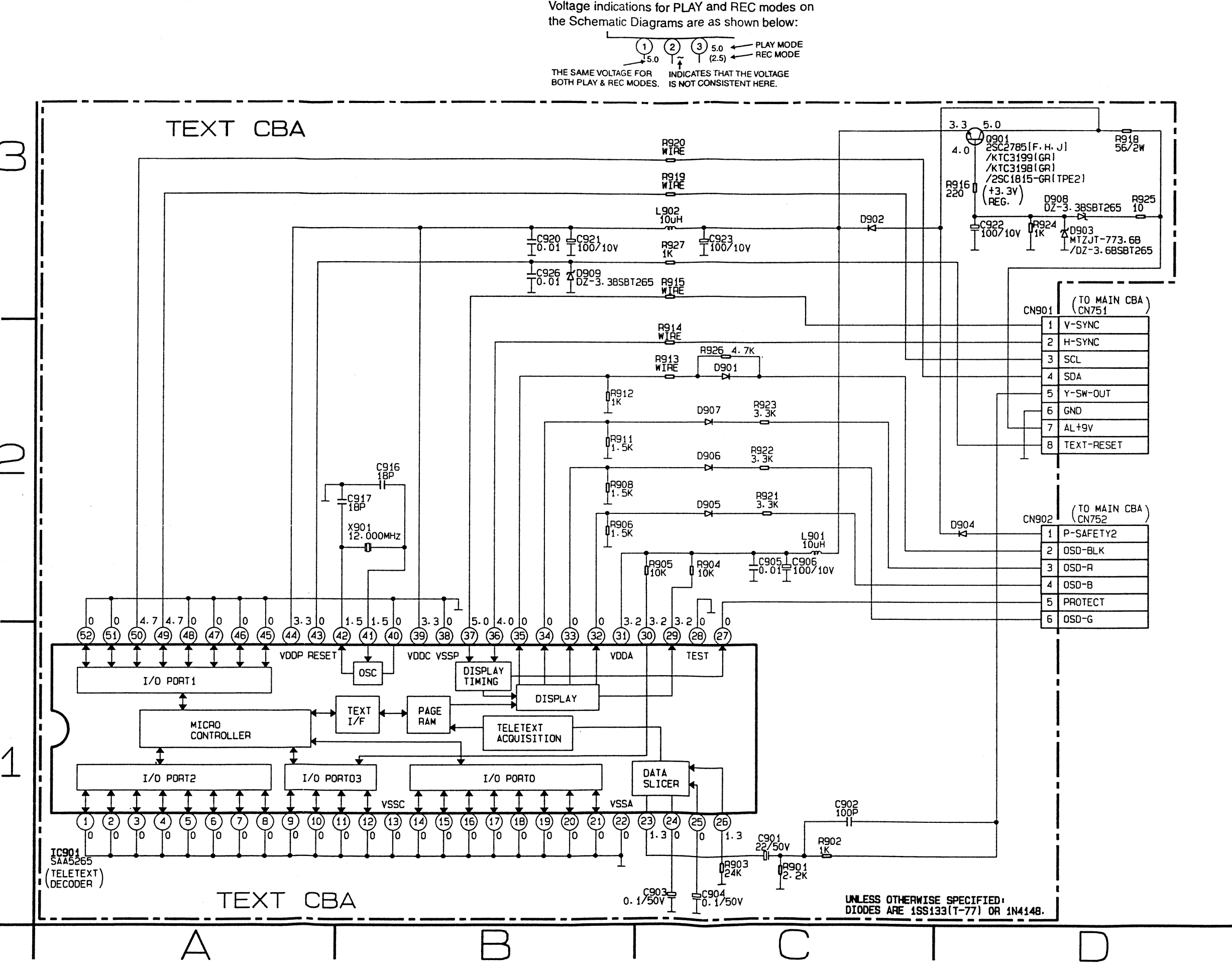
THE SAME VOLTAGE FOR BOTH PLAY & REC MODES. INDICATES THAT THE VOLTAGE IS NOT CONSISTENT HERE.



CRT SCHEMATIC DIAGRAM  
PARTS LOCATION GUIDE

Ref No.	Position
CAPACITORS	
C501	B-1
C502	C-1
C503	B-1
C504	C-2
C505	C-1
CONNECTORS	
CL501B	A-2
CN501	C-1
CN502	A-2
COIL	
L501	B-2
TRANSISTORS	
Q501	B-2
Q502	B-2
Q503	C-1
RESISTORS	
R501	B-2
R502	B-2
R503	C-2
R504	C-2
R505	C-2
R506	C-2
R507	C-2
R510	C-1
R511	B-2
R512	B-2
R513	B-1
R514	C-1
R515	B-1
R516	B-1
R517	B-1
R518	C-1
R519	C-1
R520	C-1
R521	B-1
R522	B-1
R523	B-1
MISCELLANEOUS	
JK501	C-2

Text Schematic Diagram



TEXT SCHEMATIC DIAGRAM  
PARTS LOCATION GUIDE

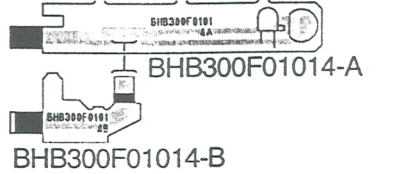
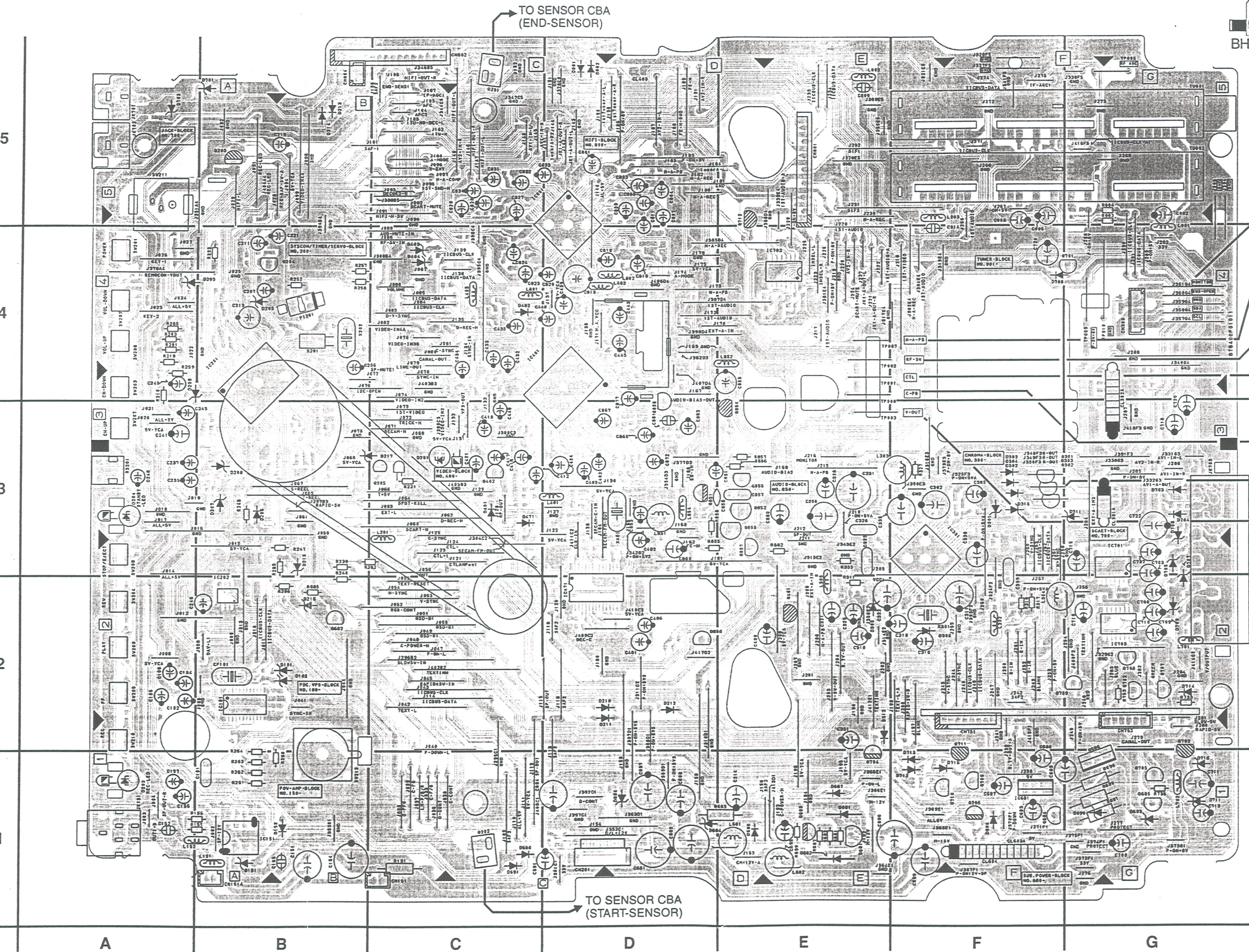
Ref No.	Position
CAPACITORS	
C901	C-1
C902	C-1
C903	C-1
C904	C-1
C905	C-2
C906	C-2
C916	B-2
C917	B-2
C920	B-3
C921	B-3
C922	D-3
C923	C-3
C926	B-3
CONNECTORS	
CN901	D-3
CN902	D-2
DIODES	
D901	C-2
D902	C-3
D903	D-3
D904	D-2
D905	C-2
D906	C-2
D907	C-2
D908	D-2
D909	B-3
IC	
IC901	A-1
COILS	
L901	C-2
L902	C-3
TRANSISTOR	
Q901	D-3
RESISTORS	
R901	C-1
R902	C-1
R903	C-1
R904	C-2
R905	C-2
R906	B-2
R908	B-2
R911	B-2
R912	B-2
R913	C-2
R914	C-2
R915	C-3
R916	D-3
R918	D-3
R919	C-3
R920	C-3
R921	C-2
R922	C-2
R923	C-2
R924	D-3
R925	D-3
R926	C-2
R927	C-3
CRYSTAL OSCILLATOR	
X901	B-2

# Main CBA Parts Location Guide

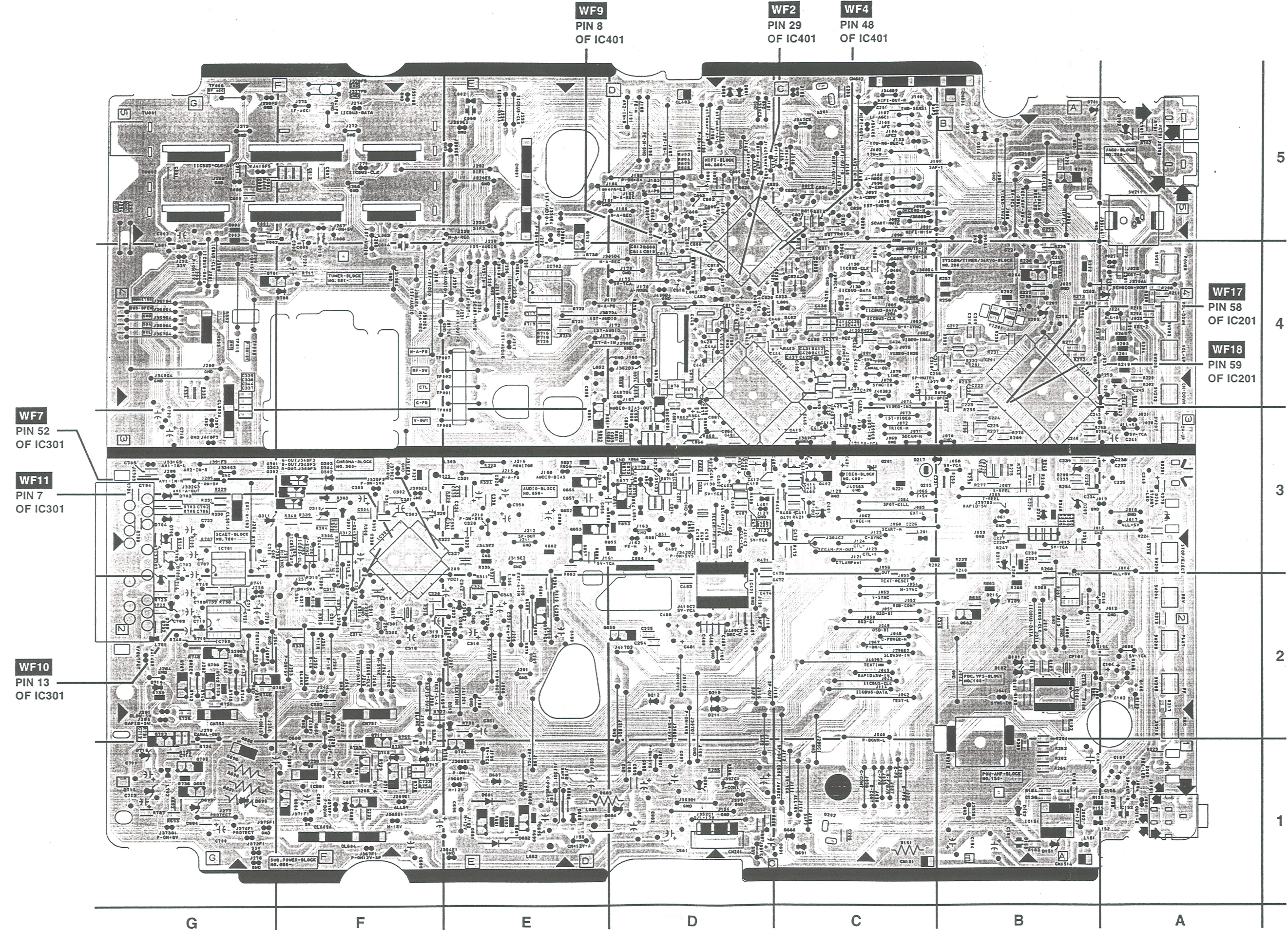
Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		CAPACITORS		CAPACITORS		DIODES		TRANSISTORS		RESISTORS		RESISTORS		RESISTORS		RESISTORS	
C001	G-5	C253	B-5	C418	C-3	C715	G-2	D471	C-3	Q703	G-2	R224	A-3	R303	F-3	R686	B-2	R856	E-3
C002	G-5	C254	D-2	C419	C-3	C716	F-1	D681	E-1	Q704	E-1	R226	B-4	R304	F-3	R687	E-1	R857	E-3
C005	F-5	C255	D-2	C420	C-3	C719	G-2	D682	E-1	Q705	G-1	R227	B-4	R305	F-3	R690	G-1	R858	D-3
C006	F-4	C256	B-4	C421	C-3	C723	F-1	D686	F-1	Q706	F-1	R228	B-4	R306	F-3	R691	G-1	R859	D-4
C007	F-5	C301	F-3	C422	C-4	C724	F-4	D687	E-1	Q707	G-2	R229	B-4	R307	F-3	R692	G-1	R860	D-3
C008	F-5	C302	F-3	C424	C-4	C851	E-3	D688	C-1	Q708	G-2	R230	B-4	R308	F-3	R693	G-1	R861	D-3
C009	E-5	C303	F-3	C425	C-4	C855	E-4	D690	G-1	Q709	F-2	R231	B-4	R309	F-3	R694	F-2	R862	D-3
C012	F-5	C304	F-3	C426	C-4	C856	E-3	D691	C-1	Q710	F-1	R232	B-4	R310	F-2	R696	G-1	R863	D-3
C013	F-4	C305	F-3	C427	C-4	C857	E-3	D693	G-1	Q711	F-2	R233	B-4	R311	E-2	R697	D-1	R864	D-3
C014	F-4	C307	F-2	C430	E-2	C858	D-3	D694	D-1	Q851	D-3	R234	B-4	R312	F-3	R698	D-1	R865	D-3
C101	B-1	C308	F-3	C431	C-4	C859	D-3	D706	G-3	Q852	E-3	R235	B-3	R313	F-3	R701	A-5	R866	D-3
C102	A-2	C309	F-2	C432	C-4	C860	D-3	D711	G-1	Q853	E-3	R236	B-3	R314	F-2	R702	A-5	R867	D-3
C103	B-2	C310	F-2	C433	C-4	C861	D-3	D712	F-1	Q854	E-3	R237	B-3	R315	F-2	R703	G-3	R869	D-4
C104	A-2	C311	F-2	C434	C-4	C862	D-3	D713	F-1	Q855	E-3	R238	B-3	R316	F-2	R704	G-3	R870	D-4
C105	A-2	C312	F-2	C435	C-4	C863	D-3	D715	F-1	Q856	D-3	R239	B-3	R317	F-2	R705	G-3	R871	D-3
C106	A-2	C313	F-2	C436	C-4	C864	D-3	D716	G-1	Q857	E-3	R240	B-3	R318	F-2	R707	G-3	R873	D-3
C151	B-1	C314	F-2	C438	C-4	C865	D-3	ICS		RESISTORS		R241	B-3	R320	E-2	R709	G-3	R874	D-4
C152	A-1	C315	F-2	C440	D-4	C866	D-3	IC101	B-2	R001	G-5	R242	B-3	R321	E-2	R710	G-2	R875	D-4
C154	B-1	C316	F-2	C441	D-4	C867	D-3	IC151	B-1	R002	G-5	R243	B-3	R322	E-3	R711	F-4	R876	D-3
C155	A-1	C317	F-2	C442	D-4	C868	D-3	IC201	B-4	R003	G-5	R244	B-3	R323	E-3	R712	G-3	R877	D-3
C156	B-1	C318	F-2	C443	D-4	C869	D-3	IC202	B-2	R004	G-5	R248	B-3	R324	E-3	R714	G-2	R878	D-4
C157	A-1	C319	F-2	C444	D-4	C870	D-3	IC301	F-3	R005	G-5	R249	B-3	R325	E-3	R723	G-2	R879	D-4
C160	B-1	C320	F-2	C445	D-4	C871	D-3	IC401	C-4	R006	G-5	R250	B-3	R326	E-3	R724	G-2	SWITCHES	
C203	C-5	C321	E-2	C452	C-4	C872	D-3	IC471	D-2	R101	B-2	R251	B-4	R327	F-3	R725	G-2	SW201	A-4
C205	C-1	C322	E-2	C471	D-3	C873	D-3	IC681	F-1	R102	B-2	R252	B-4	R328	F-3	R726	G-2	SW202	A-4
C207	B-4	C323	E-2	C472	C-2	C874	D-3	IC701	G-3	R103	B-2	R253	B-3	R332	G-4	R727	F-2	SW203	A-4
C208	B-4	C324	E-2	C473	C-2	C875	D-3	IC702	E-4	R104	A-2	R254	B-3	R333	G-4	R728	F-1	SW204	A-2
C209	B-4	C325	E-3	C474	D-2	C876	D-4	IC703	G-2	R105	A-2	R255	B-3	R334	G-4	R729	F-1	SW205	A-2
C210	B-4	C326	E-3	C475	D-3	CONNECTORS		COILS		R106	B-2	R256	B-3	R335	E-3	R730	E-2	SW206	A-4
C211	B-4	C327	E-3	C476	D-3	CL301A	G-3	J418F3	G-3	R107	B-2	R257	B-4	R336	F-2	R731	G-2	SW207	A-3
C212	B-4	C328	E-3	C478	D-3	CL302A	G-3	L001	G-4	R108	B-2	R258	B-4	R339	F-3	R732	G-2	SW208	A-3
C213	B-4	C330	E-3	C479	C-3	CL401	D-4	L151	B-1	R151	C-1	R259	A-4	R340	F-3	R733	G-2	SW209	A-2
C214	E-1	C331	E-3	C480	D-2	CL402	D-3	L152	A-1	R152	B-1	R260	B-1	R401	D-3	R734	G-1	SW210	A-2
C217	B-4	C332	E-3	C481	D-2	CL403	D-5	L201	C-3	R153	B-1	R261	B-1	R402	D-3	R735	G-1	SW211	A-5
C218	B-4	C333	E-3	C483	D-2	CL603A	F-1	L302	F-2	R154	B-1	R262	B-1	R405	C-3	R736	G-1	SW212	B-1
C221	B-4	C334	E-3	C484	D-2	CN201	D-1	L303	E-3	R155	B-1	R263	B-1	R406	C-3	R737	G-1	CRYSTAL OSCILATOR	
C222	B-4	C336	F-3	C485	D-2	CN303	G-4	L304	F-2	R156	B-1	R264	B-1	R407	C-3	R738	G-2	X201	B-4
C223	B-4	C338	G-4	C486	D-2	CN751	F-2	L305	E-2	R201	A-4	R265	B-3	R408	E-2	R739	G-2	X202	B-4
C224	B-3	C339	G-4	C681	D-1	CN752	G-2	L401	D-3	R202	A-4	R266	B-2	R409	E-2	R740	G-2	X301	F-2
C225	B-3	C340	F-3	C682	D-1	CN804	B-5	L402	D-4	R203	A-4	R267	B-2	R410	E-2	R741	G-2	X401	D-3
C226	C-3	C341	E-3	C683	F-1	DIODES		L403	C-4	R204	A-4	R268	B-3	R411	C-4	R742	G-2	TEST POINTS	
C227	B-3	C344	G-4	C684	G-1	D151	B-1	L681	E-1	R205	A-4	R269	B-2	R412	C-4	R743	G-2	TP001	E-4
C228	B-3	C350	E-3	C687	F-1	D152	B-1	L682	E-1	R206	A-4	R270	A-3	R413	C-4	R744	G-2	TP002	E-4
C229	B-3	C401	D-3	C688	F-2	D201	C-3	L701	G-2	R207	A-4	R271	B-4	R414	C-4	R745	G-2	TP003	E-3
C230	B-3	C402	D-3	C689	F-1	D202	A-1	L702	G-1	R208	A-4	R272	B-4	R415	C-4	R746	G-2	TP006	G-5
C231	B-3	C403	D-3	C691	C-1	D204	A-3	L852	E-4	R209	A-4	R273	B-4	R416	C-4	R747	G-2	TP007	E-4
C233	B-3	C404	D-3	C692	F-2	D205	B-4	L854	D-3	R210	A-4	R274	B-4	R417	D-4	R748	G-2	TP008	E-3
C234	B-3	C405	D-3	C694	C-1	D206	B-3	TRANSISTORS		R211	A-4	R275	B-3	R418	D-4	R749	G-2	TP009	G-4
C235	A-3	C406	D-3	C695	E-1	D210	D-2	Q204	B-4	R212	A-2	R276	B-3	R420	D-4	R750	G-3	TP010	G-4
C236	B-3	C407	D-3	C701	A-5	D211	D-2	Q205	C-3	R213	B-4	R277	B-3	R422	C-4	R751	G-2	MISCELLANEOUS	
C237	A-3	C408	D-3	C703	G-3	D212	D-2	Q206	F-1	R214	A-4	R278	B-3	R423	C-4	R752	F-1	JK151	A-1
C238	A-3	C409	D-3	C705	G-3	D213	B-5	Q401	E-2	R215	A-4	R279	B-3	R424	C-4	R753	G-2	JK701	A-5
C239	B-3	C410	D-3	C706	G-3	D214	B-5	Q681	E-1	R216	A-3	R280	B-3	R425	C-4	R754	F-1	JK702	A-5
C240	B-3	C411	C-3	C707	G-3	D302	F-3	Q682	B-2	R217	A-2	R281	B-4	R426	C-4	R755	E-1	JK703	G-3
C241	A-3	C412	D-3	C708	G-2	D303	F-3	Q683	E-1	R218	A-4	R282	B-3	R471	D-3	R756	F-1	PI201	B-4
C242	A-3	C413	C-3	C709	G-2	D304	F-3	Q684	F-1	R219	A-4	R287	B-4	R681	E-1	R757	F-2	RS201	A-3
C243	B-3	C414	C-3	C710	G-2	D305	E-2	Q685	G-1	R220	A-4	R288	B-3	R682	E-1	R851	F-3	TU001	G-5
C244	A-4	C415	C-3	C711	G-1	D306	F-2	Q686	G-1	R221	C-3	R289	B-2	R683	E-1	R852	E-3	TU002	G-5
C245	A-4	C416	C-3	C713	G-1	D401	C-3	Q701	G-4	R222	B-4	R301	F-3	R684	F-2	R853	D-3		
C248	A-3	C417	C-3	C714	G-1	D402	C-4	Q702	G-2	R223	A-1	R302	F-3	R685	B-2	R854	D-3		

Main CBA Top View

Sensor CBA Top View



Main CBA Bottom View



**CAUTION !**  
Fixed voltage ( or Auto voltage selectable ) power supply circuit is used in this unit.  
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.  
Otherwise it may cause some components in the power supply circuit to fail.

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,  
REPLACE ONLY WITH THE SAME TYPE FUSE.

The voltage for parts in hot circuit is measured using hot GND as a common terminal.

**R590**  
**(H Adjustment)**



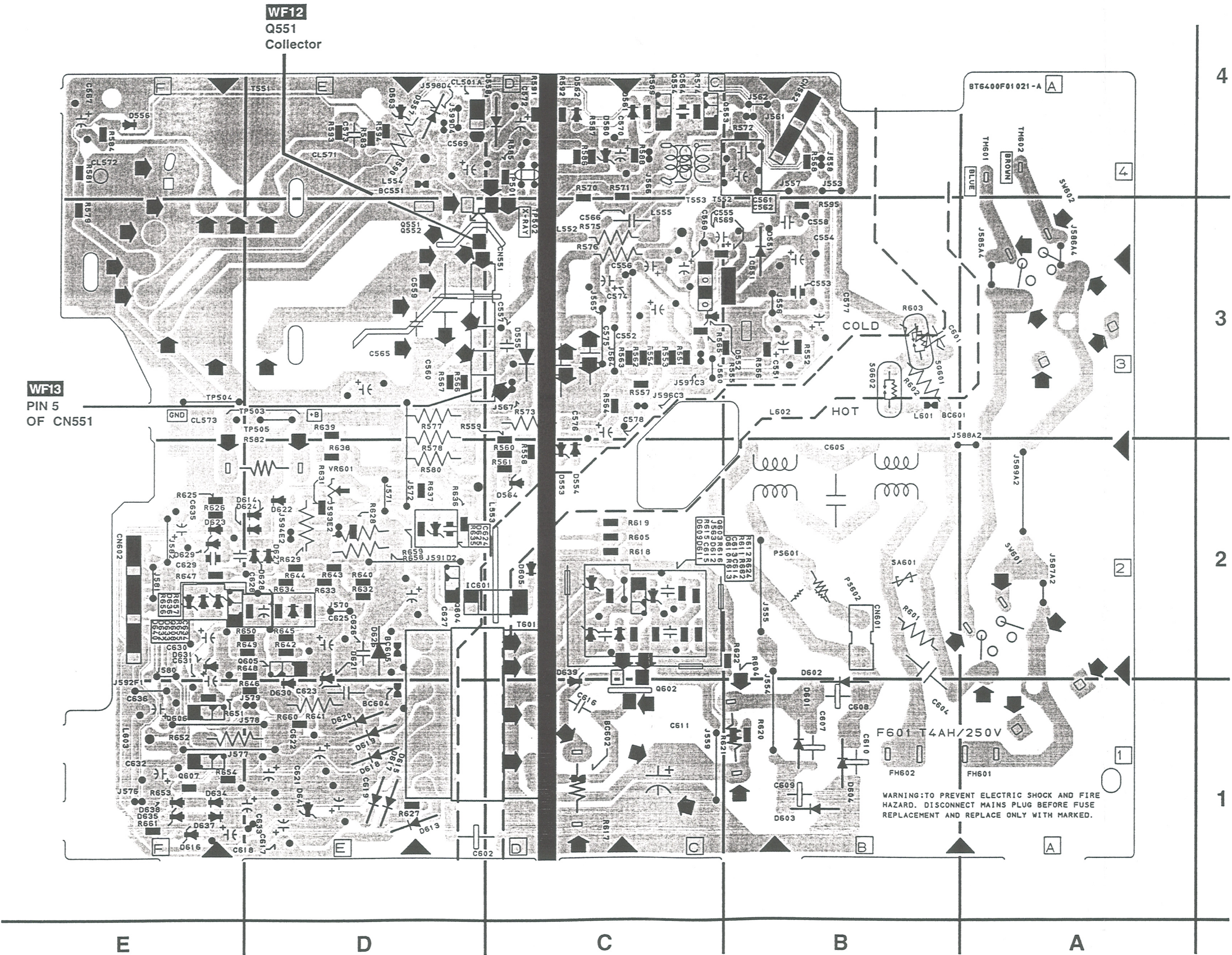
H.V./Power Supply CBA Bottom View

**CAUTION !**  
Fixed voltage ( or Auto voltage selectable ) power supply circuit is used in this unit.  
If Main Fuse (F601) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.  
Otherwise it may cause some components in the power supply circuit to fail.

**CAUTION**  
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,  
REPLACE ONLY WITH THE SAME TYPE FUSE.

**NOTE :**  
The voltage for parts in hot circuit is measured  
using hot GND as a common terminal.

**BECAUSE A HOT CHASSIS GROUND IS PRESENT IN THE POWER  
SUPPLY CIRCUIT, AN ISOLATION TRANSFORMER MUST BE USED.  
ALSO, IN ORDER TO HAVE THE ABILITY TO INCREASE THE INPUT  
SLOWLY, WHEN TROUBLESHOOTING THIS TYPE POWER SUPPLY  
CIRCUIT, A VARIABLE ISOLATION TRANSFORMER IS REQUIRED.**



H.V./Power Supply CBA Parts Location Guide

Junction-A CBA Top View

Junction-A CBA Bottom View

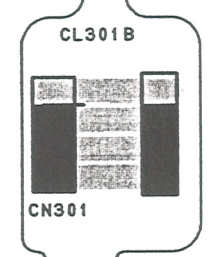
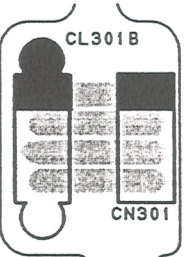
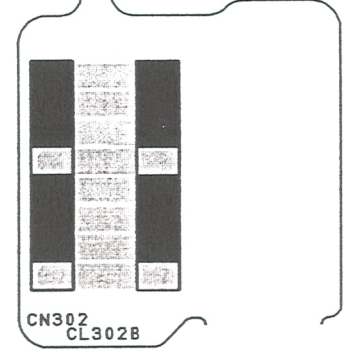
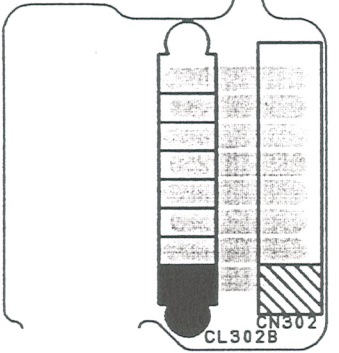
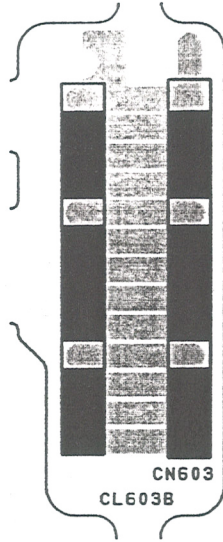
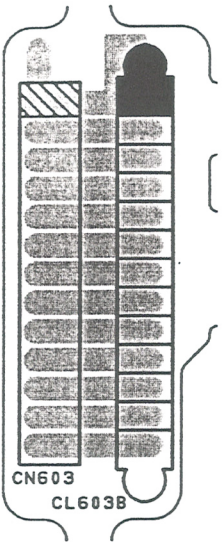
Junction-B CBA Top View

Junction-B CBA Bottom View

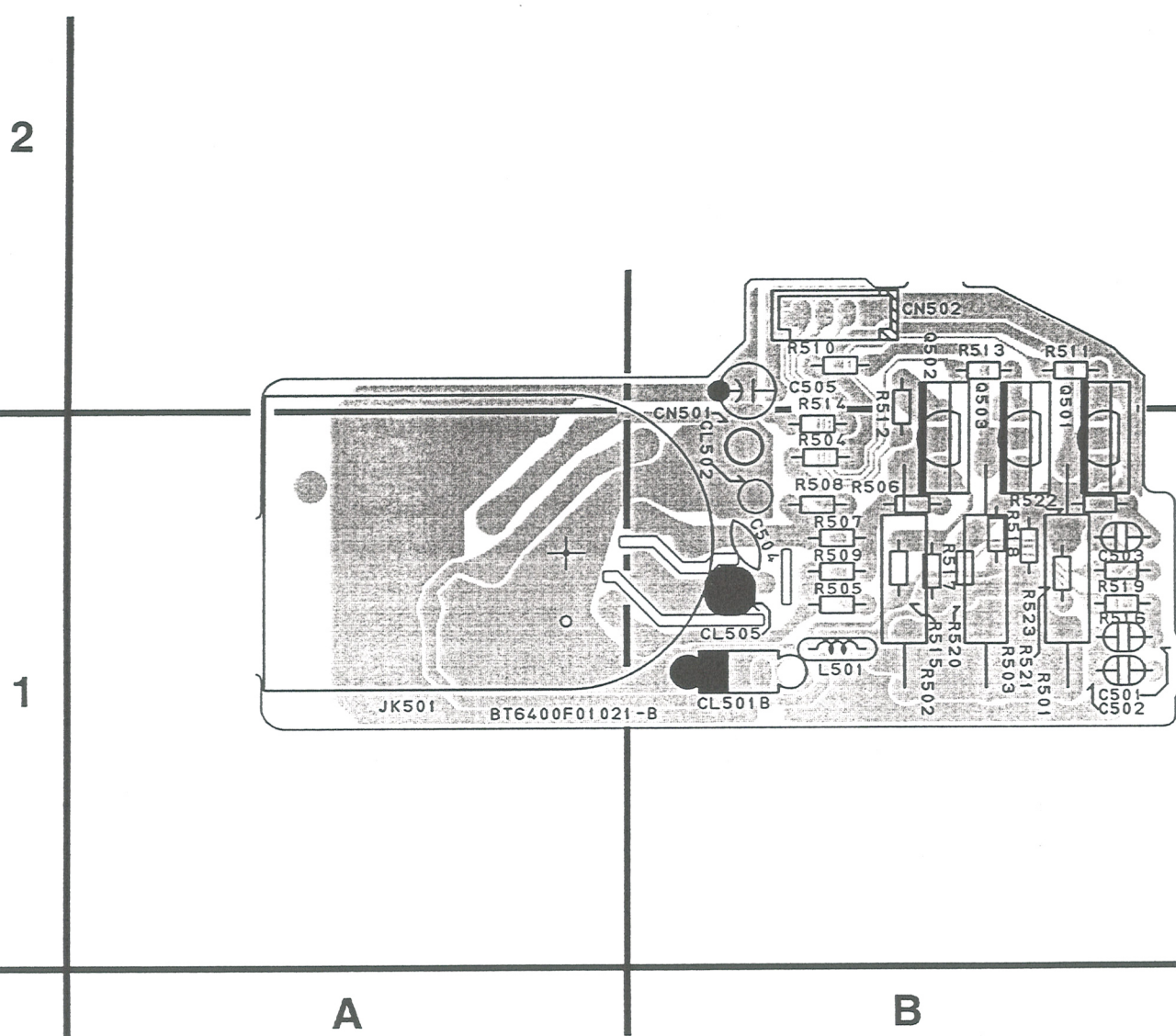
Junction-C CBA Top View

Junction-C CBA Bottom View

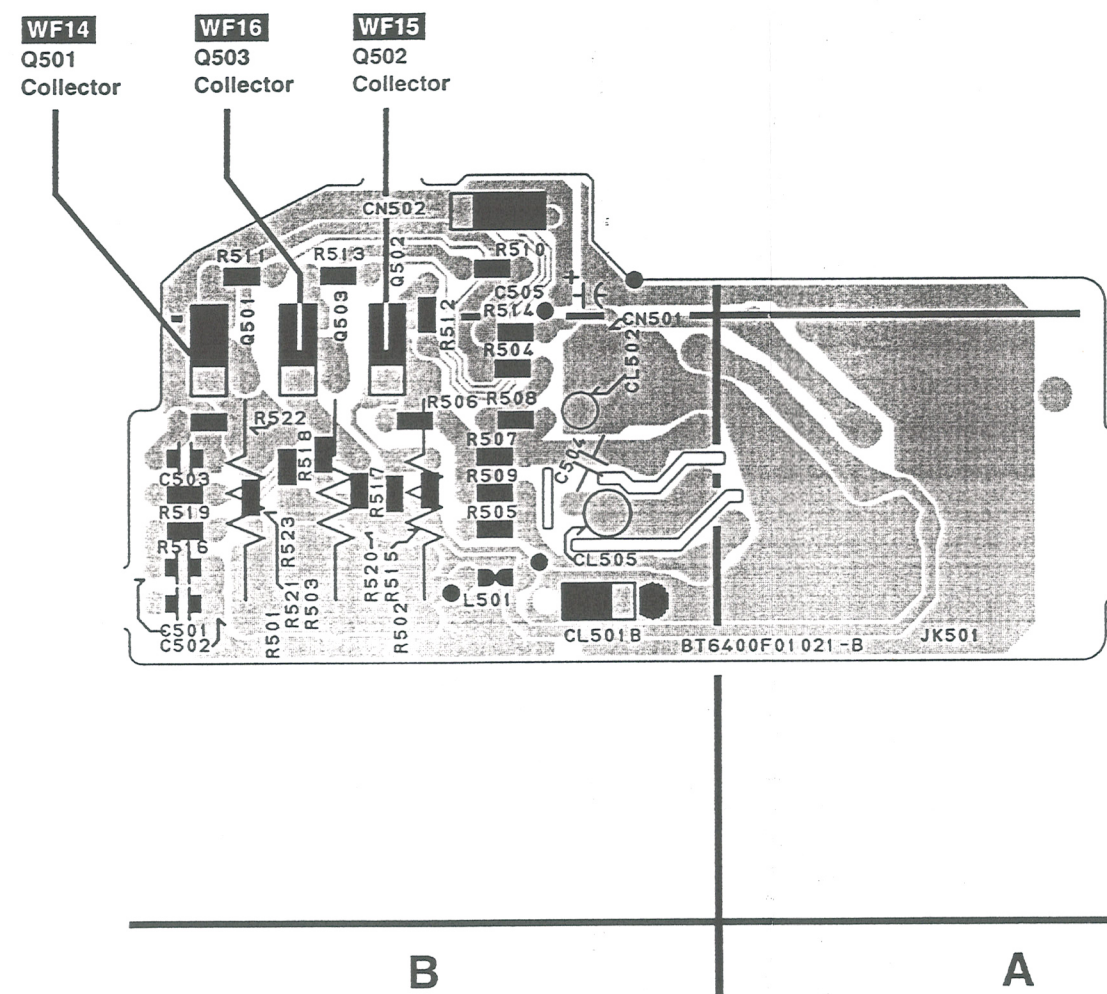
Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		DIODES		TRANSISTORS		RESISTORS	
C551	B-3	D557	D-4	Q606	E-1	R625	E-2
C552	C-3	D558	C-4	Q607	E-1	R626	E-2
C553	B-3	D560	C-4	Q608	E-2	R627	D-1
C554	B-3	D561	C-4	RESISTORS		R628	D-2
C555	B-3	D562	C-4	R551	C-3	R631	D-2
C556	C-3	D563	D-4	R552	B-3	R632	D-2
C558	B-3	D564	C-2	R553	C-3	R633	D-2
C559	D-3	D601	B-1	R554	C-3	R634	D-2
C560	D-3	D602	B-2	R555	B-3	R635	D-2
C561	B-3	D603	B-1	R556	B-3	R636	D-2
C562	B-3	D604	B-1	R557	C-3	R637	D-2
C565	D-3	D605	C-2	R558	C-2	R638	D-2
C567	E-4	D609	C-2	R559	D-3	R639	D-3
C569	D-4	D610	B-2	R560	C-2	R640	D-2
C570	C-4	D612	C-2	R561	C-2	R641	D-1
C572	C-4	D613	D-1	R564	C-3	R642	D-2
C575	C-3	D614	D-2	R565	C-3	R643	D-2
C576	C-3	D615	D-1	R566	D-3	R644	D-2
C577	B-3	D616	E-1	R568	B-4	R645	D-2
C602	C-1	D617	D-1	R569	B-3	R646	D-1
C604	B-1	D618	D-1	R570	C-4	R647	E-2
C605	B-2	D619	D-1	R572	B-4	R649	D-2
C607	B-1	D620	D-1	R573	C-3	R651	E-1
C608	B-1	D621	D-2	R574	C-4	R652	E-1
C609	B-1	D622	D-2	R577	D-3	R653	E-1
C610	B-1	D623	E-2	R578	D-2	R654	E-1
C611	C-1	D624	D-2	R579	E-3	R655	E-2
C613	B-2	D625	D-2	R580	D-2	R656	E-2
C614	B-2	D626	D-2	R581	E-4	R657	E-2
C615	C-2	D627	D-2	R583	D-4	R658	D-2
C616	C-1	D629	E-2	R584	E-4	R659	D-2
C617	D-1	D630	D-1	R585	C-4	R660	D-1
C618	D-1	D631	E-2	R586	C-4	R661	E-1
C619	D-1	D632	E-2	R587	C-4	R662	B-2
C621	D-1	D633	E-2	R588	C-4	SWITCH	
C622	D-1	D634	E-1	R589	C-4	SW601	A-2
C624	C-2	D635	E-1	R590	D-4	TEST POINTS	
C625	D-2	D636	E-2	R591	C-4	TP501	C-4
C626	D-2	D637	E-1	R592	C-4	TP502	C-3
C627	D-2	D638	E-1	R593	D-4	TP503	D-3
C629	E-2	D640	E-2	R594	D-4	TP504	E-3
C630	E-2	ICS		R595	B-3	MISCELLANEOUS	
C631	E-2	IC551	B-3	R601	B-2	BC551	D-4
C632	E-1	IC601	C-2	R602	B-3	BC602	C-1
C633	D-1	COILS		R603	B-3	BC604	D-1
C634	E-2	L552	C-3	R604	B-2	BC605	D-2
C635	E-2	L553	C-2	R605	C-2	F601	B-1
C636	E-1	L554	D-4	R611	B-2	PS602	B-2
CONNECTORS		L601	B-3	R612	B-2	SA601	B-2
CN551	C-3	L602	B-3	R613	B-2	T551	D-4
CN552	B-4	L603	E-1	R615	C-2	T552	B-3
CN601	B-2	TRANSISTORS		R616	C-2	T601	C-2
CN602	E-2	Q551	D-3	R617	C-1	TM601	A-4
DIODES		Q553	C-4	R618	C-2	TM602	A-4
D551	B-3	Q554	C-4	R619	C-2	VARIABLE RESISTOR	
D553	C-2	Q602	C-1	R620	B-1	VR601	D-2
D554	C-2	Q603	C-2	R621	B-1		
D555	C-3	Q604	D-2	R622	B-2		
D556	E-4	Q605	D-2	R624	B-2		



CRT CBA Top View



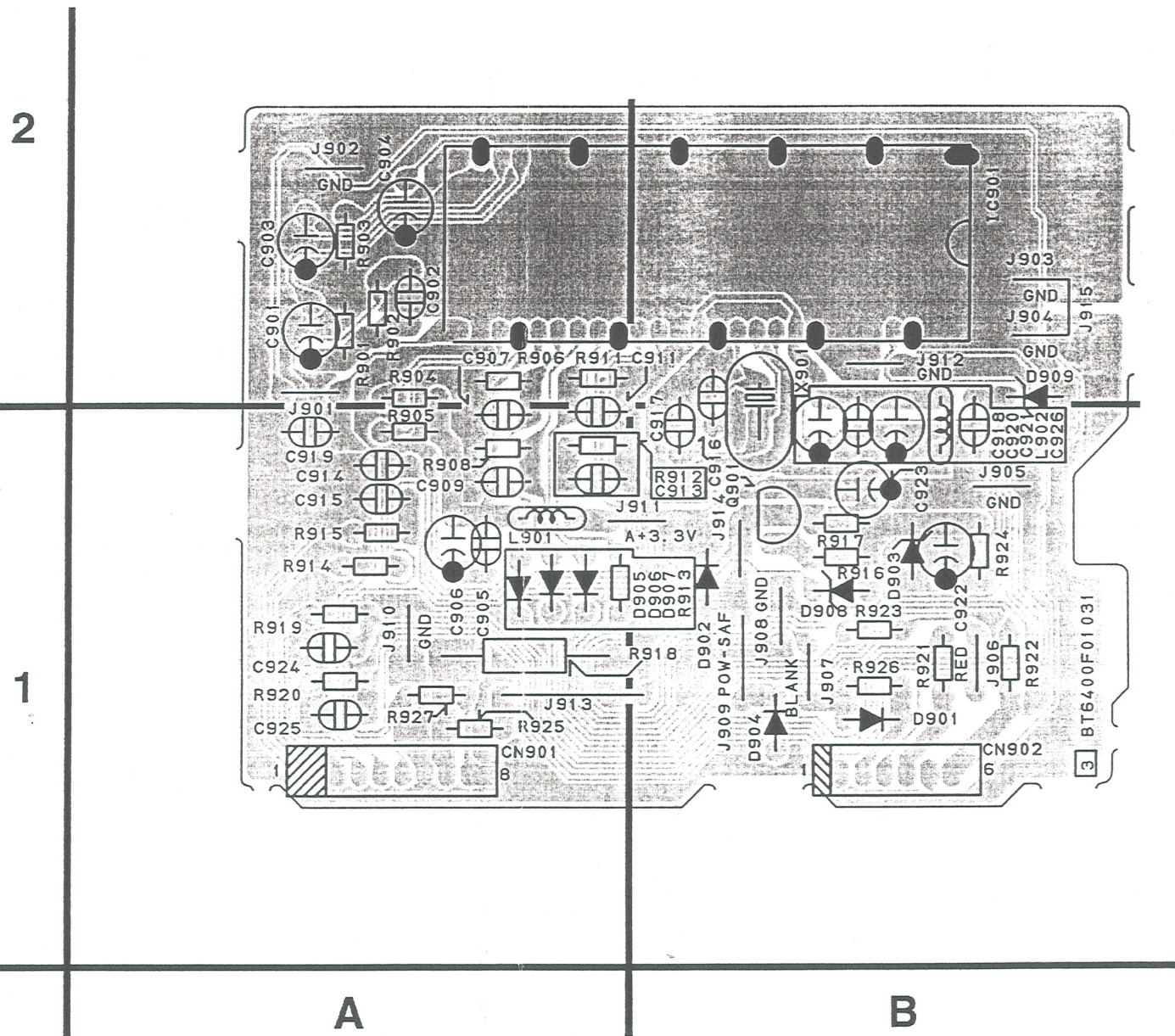
CRT CBA Bottom View



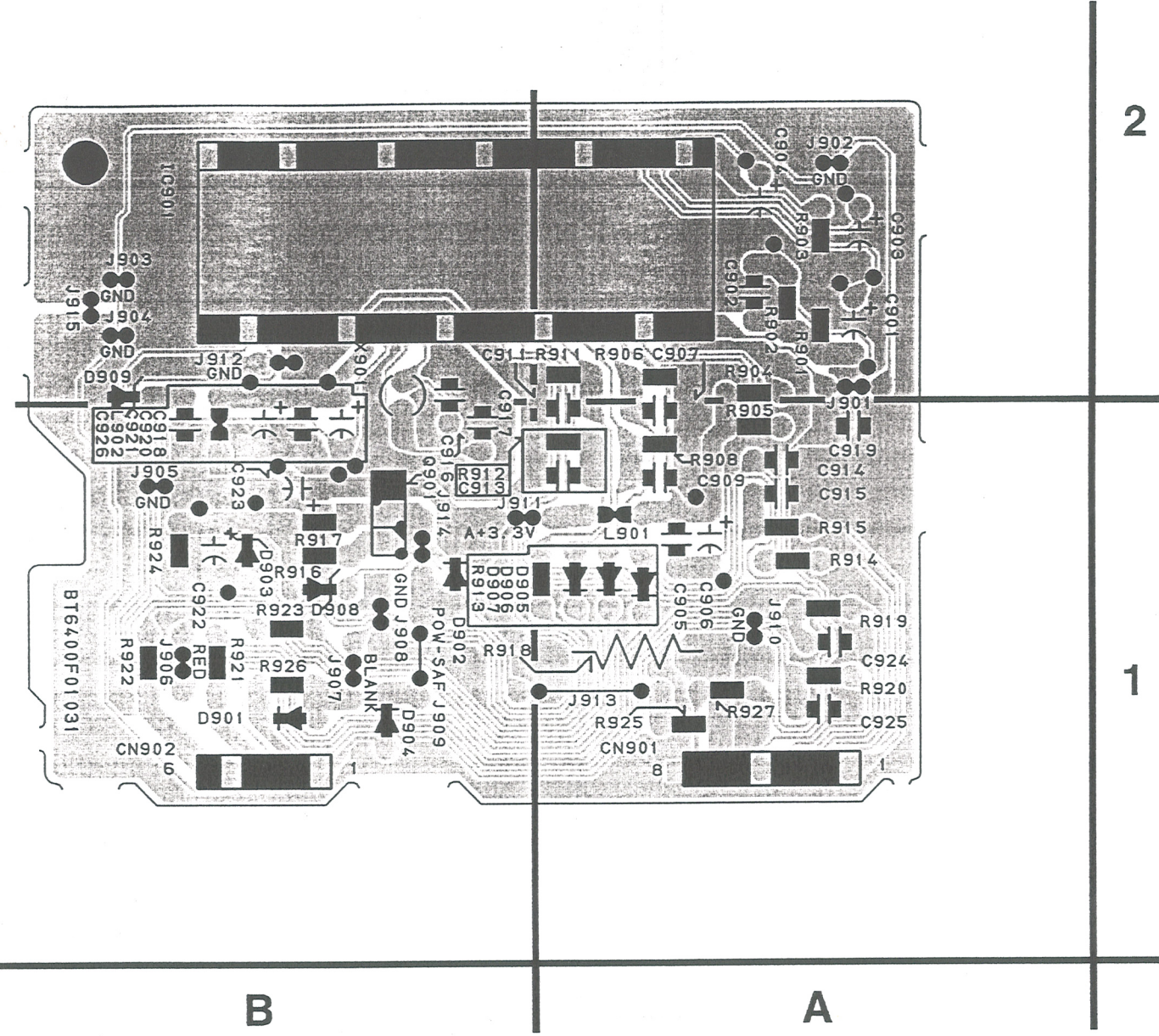
CRT CBA PARTS LOCATION GUIDE

Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		TRANSISTORS		RESISTORS		RESISTORS	
C501	B-1	Q501	B-1	R512	B-1	R514	B-1
C502	B-1	Q502	B-2	R504	B-1	R520	B-1
C503	B-1	Q503	B-1	R505	B-1	R521	B-1
C504	B-1	RESISTORS		R515	B-1	R522	B-1
C505	B-2	R501	B-1	R516	B-1	R523	B-1
CONNECTORS		R502	B-1	R515	B-1	MISCELLANEOUS	
CL501B	B-1	R503	B-1	R516	B-1	JK501	A-1
CN501	B-1	R506	B-1	R517	B-1		
CN502	B-2	R507	B-1	R518	B-1		
COIL		R510	B-2	R519	B-1		
L501	B-1	R511	B-2	R513	B-2		

Text CBA Top View



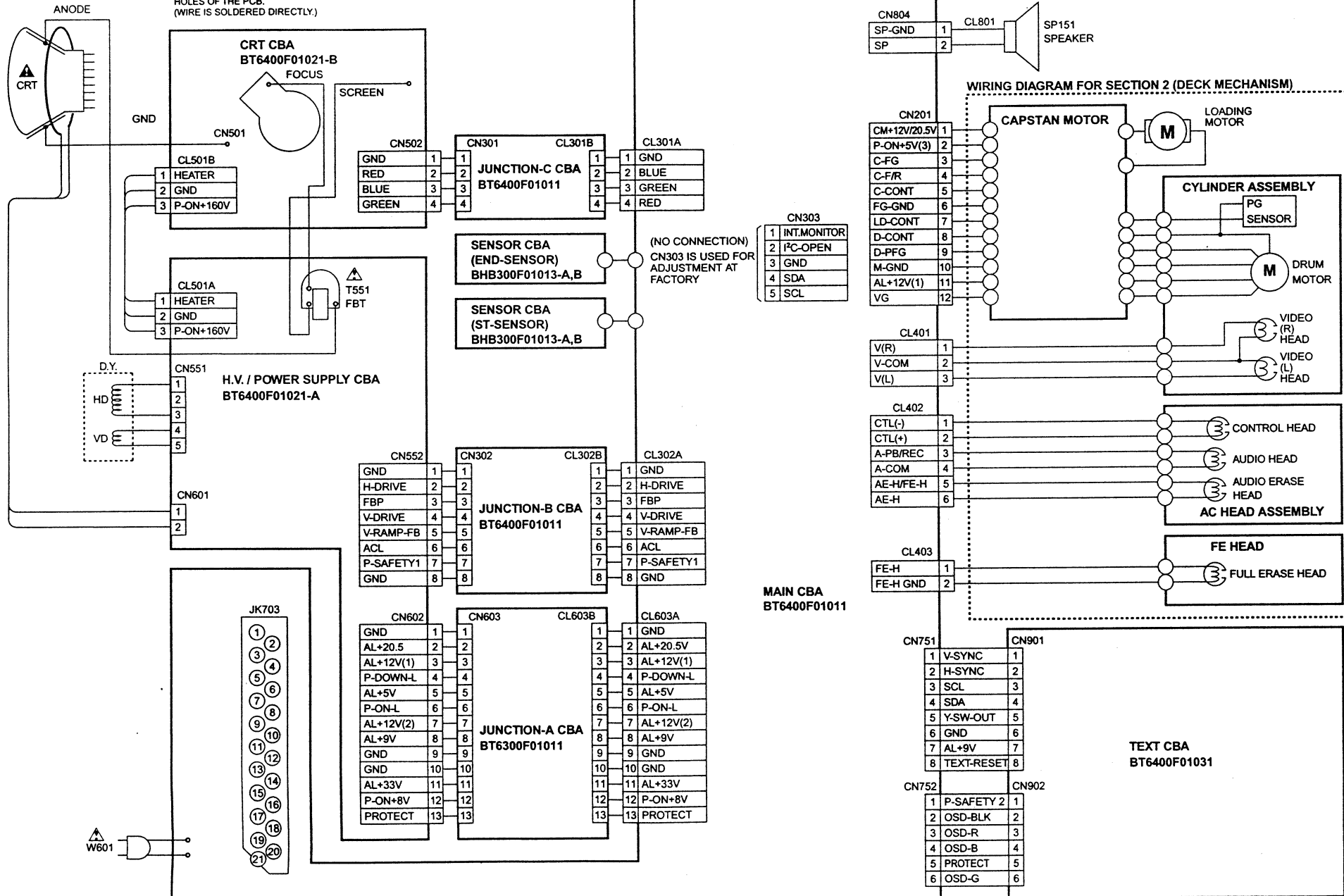
Text CBA Bottom View



TEXT CBA PARTS LOCATION GUIDE									
Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position	Ref No.	Position
CAPACITORS		CAPACITORS		DIODES		RESISTORS		RESISTORS	
C901	A-2	C926	B-1	D908	B-1	R903	A-2	R919	A-1
C902	A-2	CONNECTORS		D909	B-2	R904	A-2	R920	A-1
C903	A-2	CN901	A-1	IC		R905	A-1	R921	B-1
C904	A-2	CN902	B-1	IC901	B-2	R906	A-2	R922	B-1
C905	A-1	DIODES		COILS		R908	A-1	R923	B-1
C906	A-1	D901	B-1	L901	A-1	R911	A-2	R924	B-1
C916	B-1	D902	B-1	L902	B-1	R912	B-1	R925	A-1
C917	B-1	D903	B-1	TRANSISTOR		R913	B-1	R926	B-1
C920	B-1	D904	B-1	Q901	B-1	R914	A-1	R927	A-1
C921	B-1	D905	B-1	RESISTORS		R915	A-1	CRYSTAL OSCILLATOR	
C922	B-1	D906	B-1	R901	A-2	R916	B-1	X901	B-2
C923	B-1	D907	B-1	R902	A-2	R918	B-1		

# WIRING DIAGRAM

NOTE FOR WIRE CONNECTORS:  
1. PREFIX SYMBOL "CN" MEANS CONNECTOR.  
(CAN DISCONNECT AND RECONNECT.)  
2. PREFIX SYMBOL "CL" MEANS WIRE-SOLDER  
HOLES OF THE PCB.  
(WIRE IS SOLDERED DIRECTLY.)



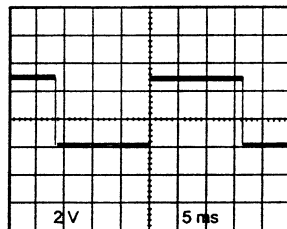
# WAVEFORMS

## WAVEFORM NOTES

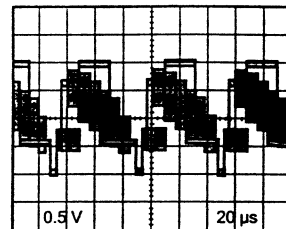
INPUT: COLOR BAR SIGNAL

OTHER CONTROLS: CENTER POSITION

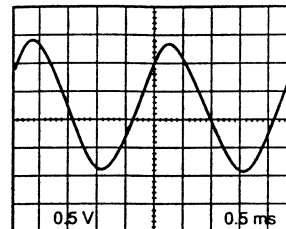
VOLTAGES SHOWN ARE RANGE OF  
OSCILLOSCOPE SETTING



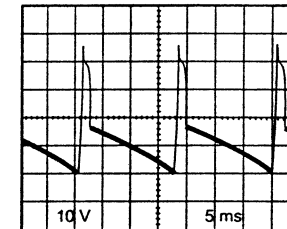
WF1 MAIN 2/5 SCHEMATIC DIAGRAM  
TP002 RF-SW



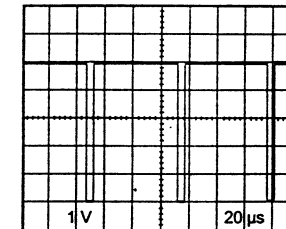
WF5 MAIN 2/5 SCHEMATIC DIAGRAM  
TP003 V-OUT



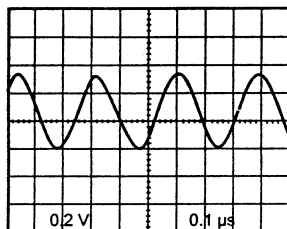
WF9 MAIN 2/5 SCHEMATIC DIAGRAM  
IC401 PIN 8



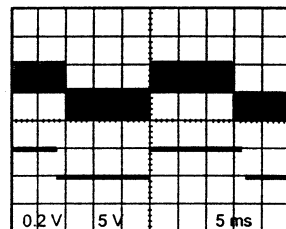
WF13 H.V./POWER SUPPLY 2/2  
SCHEMATIC DIAGRAM  
CN551 PIN 5



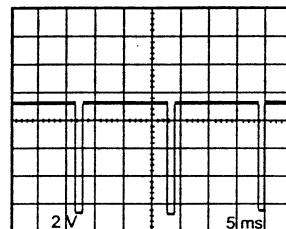
WF17 MAIN 1/5 SCHEMATIC DIAGRAM  
IC201 PIN 58



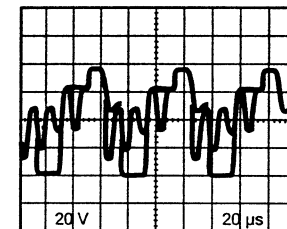
WF2 MAIN 2/5 SCHEMATIC DIAGRAM  
IC401 PIN 29



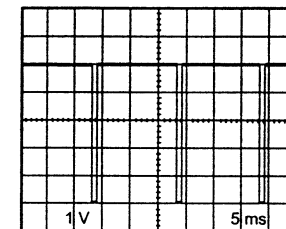
Upper: WF6 Lower: WF1  
MAIN 2/5 SCHEMATIC DIAGRAM  
TP008 C-PB



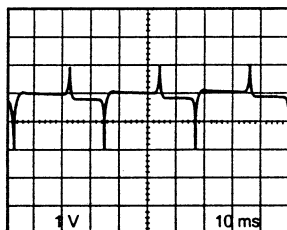
WF10 MAIN 3/5 SCHEMATIC DIAGRAM  
IC301 PIN 13



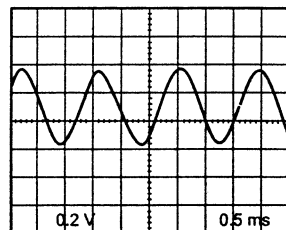
WF14 CRT SCHEMATIC DIAGRAM  
Q501 COLLECTOR



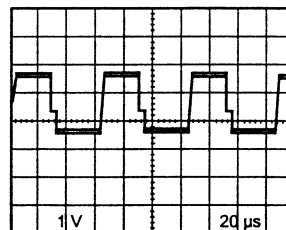
WF18 MAIN 1/5 SCHEMATIC DIAGRAM  
IC201 PIN 59



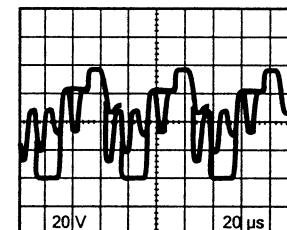
WF3 MAIN 1/5 SCHEMATIC DIAGRAM  
TP001 CTL



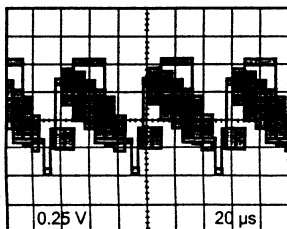
WF7 MAIN 3/5 SCHEMATIC DIAGRAM  
IC301 PIN 52



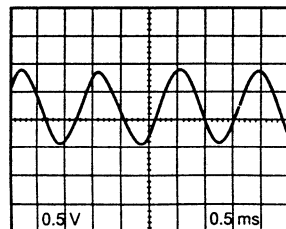
WF11 MAIN 3/5 SCHEMATIC DIAGRAM  
IC301 PIN 7



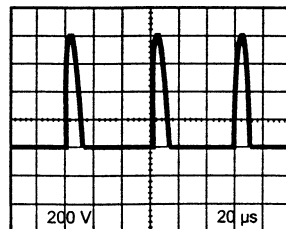
WF15 CRT SCHEMATIC DIAGRAM  
Q502 COLLECTOR



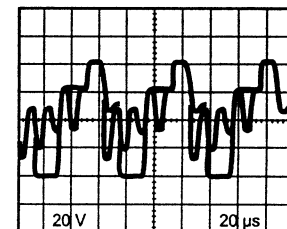
WF4 MAIN 2/5 SCHEMATIC DIAGRAM  
IC401 PIN 48



WF8 MAIN 2/5 SCHEMATIC DIAGRAM  
TP007 N-A-PB



WF12 H.V./POWER SUPPLY 2/2  
SCHEMATIC DIAGRAM  
Q551 COLLECTOR



WF16 CRT SCHEMATIC DIAGRAM  
Q503 COLLECTOR

## Chart 1

[illegible]

**T6400TI**



## Chart 2

Pin No.	Mark	IN/OUT	Signal Name	Function
44		OUT	SP-MUTE	Speaker Mute Signal
45		IN	I2C-OPEN	White Balance Adjust Mode Judgment
46		-	GND	GND
47		OUT	D-REC-H	Delayed Record Signal
48		OUT	SCART-H	Switching Signal of Scart Jack and RCA Jack
49		-	OSD-GND	OSD GND
50		-	NU	Not Used
51		-	NU	Not Used
52		-	NU	Not Used
53		-	OSDVcc	OSDVcc
54		-	HLF	HLF
55		OUT	TEXT-RESET	Tele Text Reset
56		IN	CV-IN	Video Signal Input
57		-	GND	GND
58		IN	H-SYNC	H-SYNC Input
59		IN	V-SYNC	V-SYNC Input
60		OUT	OSD-BLK	Output for Picture Cut off
61		OUT	RGB-CONT	RGB Control Signal
62		OUT	OSD-B	Blue Output
63		OUT	OSD-G	Green Output
64		OUT	OSD-R	Red Output
65		IN	RAPIT-SW-IN	RAPID-Switch Input Signal
66		OUT	C-POWER-SW	Capstan Power Switching Signal
67		OUT	P-ON-H	Power On Signal at High
68		IN	SLOW-SW-IN	Slow Switch Input Signal
69		-	NU	Not Used
70		OUT	TEXT-IN-H	Tele Text Input Signal at High
71		OUT	SCL	E2PROM/CHROMA IC Tuner Communication Clock

Pin No.	Mark	IN/OUT	Signal Name	Function
72		IN/OUT	SDA	E2PROM/CHROMA IC Tuner Communication Data
73		-	NU	Not Used
74		IN	C-SYNC	C-Sync Input
75		-	NU	Not Used
76		OUT	C-CONT	Capstan Motor Control Signal
77		OUT	D-CONT	Drum Motor Control Signal
78		OUT	C-F/R	Capstan Motor FWD/REV Control Signal (FWD="L"/REV="H")
79		IN	S-REEL	Supply Reel Rotation Signal
80		IN	T-REEL	Take Up Reel Rotation Signal
81		OUT	LD-CONT	Loading Motor Control Signal
82		OUT	TEXT-L	Teletext Control Signal
83	A,C,E,G	IN	DAVN-L	VPS/PDC Data Receive = "L"
	B,D,F,H	-	NU	Not Used
84		-	NU	Not Used
85		OUT	P-DOWN-L	Power Voltage Down Detector Signal at Low
86		-	NU	Not Used
87		IN	C-FG	Capstan Motor Rotation Detection Pulse
88		-	AMPVss	AMPVss (GND)
89		-	NU	Not Used
90		IN	D-PFG	Drum Motor Phase/Frequency Generator
91		OUT	AMP VREF-OUT	Standard Voltage Output
92		IN	AMP VREF-IN	Standard Voltage Input
93		-	C	C Terminal
94		IN/OUT	CTL (-)	CTL (-)

## IC PIN FUNCTION DESCRIPTIONS

Comparison Chart of Models and Marks

Model	Mark
14PV374/07	A
14PV375/07	B
14PV374/01	C
14PV375/01	D
14PV374/58	E
14PV375/58	F
14PV374/39	G
14PV375/39	H

### IC 201 (TV/VCR Micro Computer)

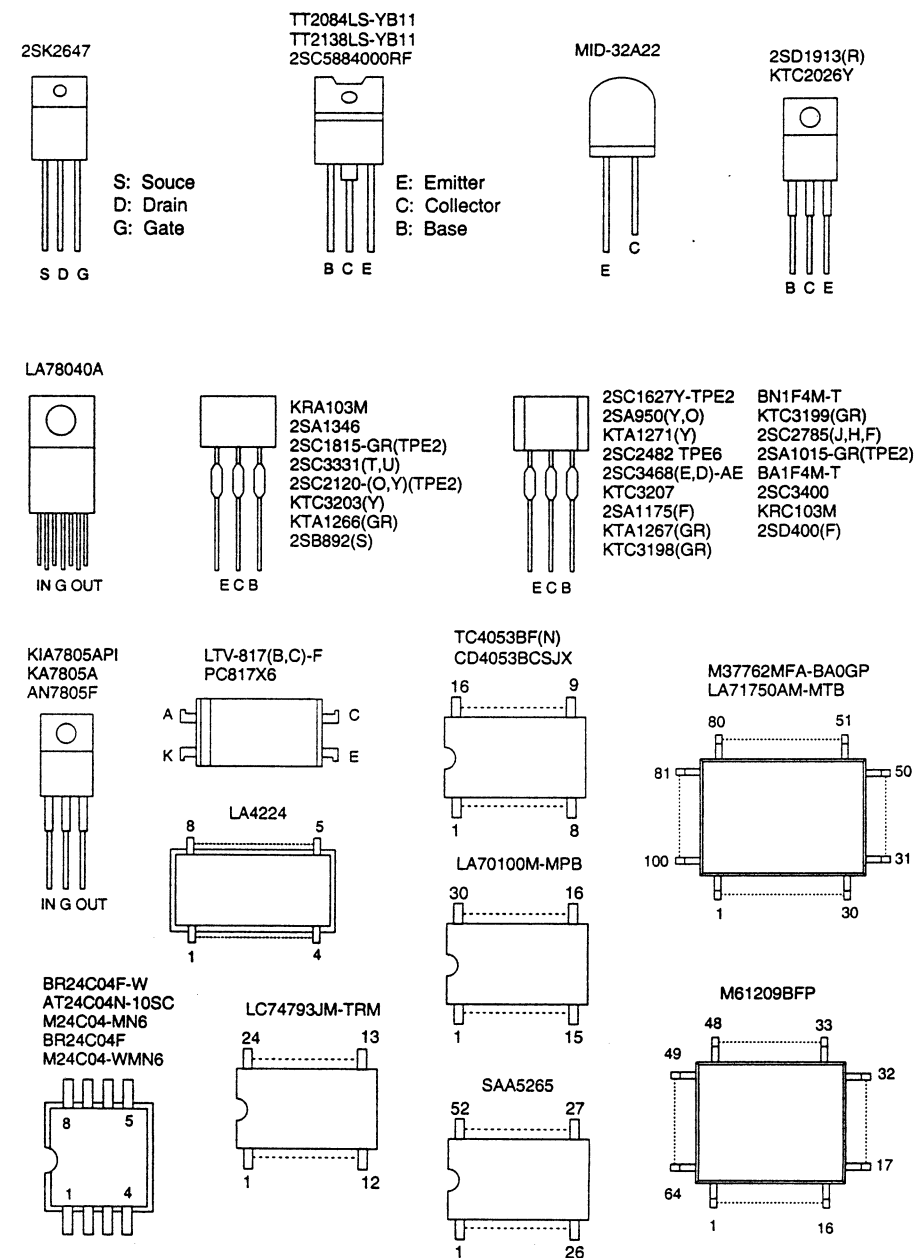
"H" ≥ 4.5V, "L" ≤ 1.0V

Pin No.	Mark	IN/OUT	Signal Name	Function
1		IN	AFC2	AFC 2 of Tuner 2
2		IN	P-SAFETY 2	Power Supply Failure Detection 2
3		IN	P-SAFETY 1	Power Supply Failure Detection 1
4		IN	END-SENS	End-Sensor
5		IN	AFC	Automatic Frequency Control Signal
6		IN	V-ENV	Video Envelope Input
7		IN	KEY-1	Key 1 Input
8		IN	KEY-2	Key 2 Input
9		IN	LD-SW	Loading Switch Input
10		IN	ST-SENS	Start-Sensor
11		-	NU	Not Used
12		-	NU	Not Used
13		IN/OUT	D-V SYNC	Artificial V-Sync Output
14		IN	REMOTE	Remote Signal Input
15		OUT	C-ROTA	Color Phase Rotary Changeover Signal
16		-	NU	Not Used
17		-	NU	Not Used
18		OUT	RF-SW	Video Head Switching Pulse
19		-	NU	Not Used

Pin No.	Mark	IN/OUT	Signal Name	Function
20		OUT	A-MUTE-H	Audio Mute Control Signal (Mute = "H")
21		OUT	1ST-SND-H	Tuner 1 and Tuner 2 Switching Signal
22		-	NU	Not Used
23		OUT	REC-LED	Recording LED Control Signal
24		OUT	REC-LED	Recording LED Control Signal
25		-	NU	Not Used
26		-	NU	Not Used
27		-	NU	Not Used
28		-	NU	Not Used
29		IN	SCART-MUTE	RAPID-Switch Input Signal from Scart Jack
30		-	NU	Not Used
31		IN	REC-SAFETY	Record Protection Tab Detection
32	A,C,E,G	-	NU	Not Used
	B,D,F,H	IN	SECAM-H	SECAM Mode at High
33	A,C,E,G	-	NU	Not Used
	B,D,F,H	OUT	TRICK-H	Special Playback = "H" in SECAM Mode
34		IN	RESET	System Reset Signal (Reset="L")
35		IN	XCIN	Sub Clock 32 kHz
36		OUT	XCOUT	Sub Clock 32 kHz
37		-	TIMER+5V	Vcc
38		IN	XIN	Main Clock Input
39		OUT	XOUT	Main Clock Output
40		-	GND	GND
41		OUT	SPOT-KILL	Counter-measure for Spot
42		OUT	EXT-L	External Input or Playback = Output
43		IN	CLKSEL	Clock Select (GND)

Pin No.	Mark	IN/ OUT	Signal Name	Function
95		IN/ OUT	CTL (+)	CTL (+)
96		-	AMPC	AMPC
97		OUT	CTL AMP- OUT	Control Amp Output
98		-	AMPVcc	AMPVcc
99		-	AVcc	A/D Converter Power Input/ Standard Voltage Input
100		IN	AGC	Tuner IF Output Signal

## LEAD IDENTIFICATIONS



**PRODUCT SAFETY NOTE** Products marked with a ▲

have special characteristics important to safety.  
Before replacing any of these components, read carefully  
the product safety notice in this service manual.  
Don't degrade the safety of the product through improper servicing.

**NOTES:**

C.....±0.25%    D.....±0.5%    F.....±1%  
G.....±2%        J.....±5%        K.....±10%  
M.....±20%      N.....±30%      Z.....+80/-20%

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
MMA CBA								
Consists of the following								
		MAIN CBA	1	1	1	1	1	1
		JUNCTION A CBA	1	1	1	1	1	1
		JUNCTION B CBA	1	1	1	1	1	1
		JUNCTION C CBA	1	1	1	1	1	1
		SENSOR CBA	1	1	1	1	1	1
		POWER CBA	1	1	1	1	1	1
		CRT CBA	1	1	1	1	1	1
		H.V./POWER SUPPLY CBA	1	1	1	1	1	1
		TEXT CBA	1	1	1	1	1	1
MAIN CBA								
CAPACITORS								
C001		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C002	9965 000 14863	ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1
C005		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C006	9965 000 13908	ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C007		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C008		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C009		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
C012		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C013		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C014		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
C101		FILM CAP.(P) 0.056UF/50V J	1	1	1	1	1	1
C102		ELECTROLYTIC CAP. 4.7UF/50V M H7	1	1	1	1	1	1
C103		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C104		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C105		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C106		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C151		ELECTROLYTIC CAP. 330UF/16V M	1	1	1	1	1	1
C152		CERAMIC CAP.(AX) X M 2200PF/16V	1	1	1	1	1	1
C154		ELECTROLYTIC CAP. 470UF/16V M	1	1	1	1	1	1
C155		ELECTROLYTIC CAP. 0.22UF/50V M H7	1	1	1	1	1	1
C156		CHIP CERAMIC CAP. B K 4700PF/50V	1	1	1	1	1	1
C157		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1
C160		CHIP CERAMIC CAP. CH J 390PF/50V	1	1	1	1	1	1
C203		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C205		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C207		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C208		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C209		CHIP CERAMIC CAP. CH J 22PF/50V	1	1	1	1	1	1
C210		CHIP CERAMIC CAP. CH J 22PF/50V	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
C211		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C212		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C213		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C214		ELECTROLYTIC CAP. 330UF/6.3V M	1	1	1	1	1	1
C217		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1
C218		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1
C221		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C222		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C223		CHIP CERAMIC CAP.(MELF) Y K 2200PF/35V	1	1	1	1	1	1
C224		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C225		CHIP CERAMIC CAP. CH J 560PF/50V	1	1	1	1	1	1
C226		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C227		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1
C228		CHIP CERAMIC CAP. CH D 10PF/50V	1	1	1	1	1	1
C229		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1
C230		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C231		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C233		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1
C234		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C235		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C236		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1
C237		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C238		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1
C239		CHIP CERAMIC CAP. CH J 560PF/50V	1	1	1	1	1	1
C240		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1
C241		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1
C242		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C243		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C244		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C245		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C248		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C253		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C256		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1
C301		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C302		ELECTROLYTIC CAP. 1000UF/6.3V M	1	1	1	1	1	1
C303		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C304		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C305		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C307		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C308		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C309		FILM CAP.(P) 0.1UF/50V J	1	1	1	1	1	1
C310		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C311		ELECTROLYTIC CAP. 1000UF/6.3V M	1	1	1	1	1	1
C312		CHIP CERAMIC CAP.(MELF) B K 180PF/50V	1	1	1	1	1	1
C313		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C314		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C315		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C316		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C317		CHIP CERAMIC CAP. CH J 150PF/50V	1	1	1	1	1	1
C318		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C319		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C320		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C321		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C322		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1
C323		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1
C324		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C325		MYLAR CAP. 0.22UF/50V J	1	1	1	1	1	1
C326		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C327		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
C328		MYLAR CAP. 0.22UF/50V J	1	1	1	1	1	1
C330		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C331		ELECTROLYTIC CAP. 47UF/10V M	1	1	1	1	1	1
C332		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C333		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C334		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C336		ELECTROLYTIC CAP. 47UF/10V M	1	1	1	1	1	1
C338		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1
C339		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C340		CHIP CERAMIC CAP.(MELF) SL J 100PF/50V	1	1	1	1	1	1
C341		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C344		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1
C350		ELECTROLYTIC CAP. 220UF/10V M	1	1	1	1	1	1
C401		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C402		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C403		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C404		ELECTROLYTIC CAP. 100UF/6.3V H7	1	1	1	1	1	1
C405		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C406		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1
C407		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C408		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C409		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1
C410		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C411		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C412		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C413		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C414		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C415		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C416		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C417		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C418		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C419		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C420		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C421		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1
C422		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C424		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C425		CHIP CERAMIC CAP. CH J 68PF/50V	1	1	1	1	1	1
C426		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C427		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C430		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1
C431		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C432		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C433		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1
C434		ELECTROLYTIC CAP. 22UF/16V M H7	1	1	1	1	1	1
C435		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C436		CHIP CERAMIC CAP. CH J 120PF/50V	1	1	1	1	1	1
C438		CHIP CERAMIC CAP. CH J 220PF/50V	1	1	1	1	1	1
C440		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C441		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C442		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C443		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C444		CHIP CERAMIC CAP. B K 1000PF/50V	1	1	1	1	1	1
C445		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1
C452		CHIP CERAMIC CAP. CH J 68PF/50V	1	1	1	1	1	1
C471		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C472		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C473		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C474		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C475		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
C476		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C478		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C479		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C480		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C481		ELECTROLYTIC CAP. 0.47UF/50V M H7	1	1	1	1	1	1
C483		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C484		CHIP CERAMIC CAP. CH J 820PF/50V	1	1	1	1	1	1
C485		CHIP CERAMIC CAP. CH J 820PF/50V	1	1	1	1	1	1
C486		ELECTROLYTIC CAP. 2.2UF/50V M H7	1	1	1	1	1	1
C681		ELECTROLYTIC CAP. 220UF/25V M	1	1	1	1	1	1
C682		ELECTROLYTIC CAP. 220UF/16V M	1	1	1	1	1	1
C683		ELECTROLYTIC CAP. 10UF/50V M	1	1	1	1	1	1
C684		CHIP CERAMIC CAP.(MELF) SL J 100PF/50V	1	1	1	1	1	1
C687		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1
C688		ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1
C689		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1
C691		ELECTROLYTIC CAP. 2.2UF/50V M	1	1	1	1	1	1
C692		CHIP CERAMIC CAP.(MELF) F Z 0.01UF/16V	1	1	1	1	1	1
C694		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1
C695		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1
C701		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1
C703		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1
C705		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1
C706		CHIP CERAMIC CAP.(MELF) Y K 6800PF/16V	1	1	1	1	1	1
C707		ELECTROLYTIC CAP. 0.22UF/50V M	1	1	1	1	1	1
C708		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1
C709		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1
C710		ELECTROLYTIC CAP. 0.47UF/50V M	1	1	1	1	1	1
C711		ELECTROLYTIC CAP. 470UF/10V M	1	1	1	1	1	1
C713		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1
C714		CHIP CERAMIC CAP. CH J 270PF/50V	1	1	1	1	1	1
C715		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1
C716		CHIP CERAMIC CAP. B K 0.047UF/50V	1	1	1	1	1	1
C719		ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C723		CHIP CERAMIC CAP.(MELF) Y K 1000PF/35V	1	1	1	1	1	1
C724		ELECTROLYTIC CAP. 47UF/10V M	1	1	1	1	1	1
C851		ELECTROLYTIC CAP. 47UF/6.3V M H7	1	1	1	1	1	1
C855		ELECTROLYTIC CAP. 220UF/6.3V M H7	1	1	1	1	1	1
C856		CERAMIC CAP. B K 470PF/100V	1	1	1	1	1	1
C857		FILM CAP.(P) 0.018UF/100V J	1	1	1	1	1	1
C858		CHIP CERAMIC CAP. B K 2200PF/50V	1	1	1	1	1	1
C859		CHIP CERAMIC CAP.(MELF) SL J 33PF/50V	1	1	1	1	1	1
C860		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1
C861		CERAMIC CAP.(AX) X M 1800PF/16V	1	1	1	1	1	1
C862		ELECTROLYTIC CAP. 10UF/25V M H7	1	1	1	1	1	1
C863		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1
C864		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C865		CHIP CERAMIC CAP. B K 0.022UF/50V	1	1	1	1	1	1
C866		ELECTROLYTIC CAP. 33UF/10V H7	1	1	1	1	1	1
C867		ELECTROLYTIC CAP. 4.7UF/50V M H7	1	1	1	1	1	1
C868		CHIP CERAMIC CAP.(MELF) Y K 4700PF/16V	1	1	1	1	1	1
C869		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C870		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C871		CHIP CERAMIC CAP.(MELF) B K 150PF/50V	1	1	1	1	1	1
C872		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
C873		CHIP CERAMIC CAP.(MELF) B K 150PF/50V	1	1	1	1	1	1
C874		CHIP CERAMIC CAP. F Z 0.1UF/50V	1	1	1	1	1	1
C875		CHIP CERAMIC CAP. CH J 220PF/50V	1	1	1	1	1	1
C876		CHIP CERAMIC CAP. B K 0.01UF/50V	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
CF101	9965 000 13835	CERAMIC RESONATOR 4.433MHZ	1	1	1	1	1	1
MISCELLANEOUS								
1006	3143 027 10241	TUN IF V+U PLL PHONO BGDKIL		1				1
1006	3143 02 710221	TUN IF V+U PLL PHONO BGDKI	1	1	1	1		
8016	2422 070 98211	MAINSCORD EUR 2A5 1M7 JH BK B	1	1	1	1		1
8016	2422 070 98218	MAINSCORD UK 5A 1M8 BK B					1	
8200	3143 021 00021	TUNER CABLE	1	1	1	1	1	1
5000	3143 021 00011	COI DEGAUS FUNAI	1	1	1	1	1	1
8000	3143 021 00031	EARTH CABLE	1	1	1	1	1	1
CONNECTORS								
CL301A	9965 000 13836	LEAD WIRE 4P/300	1	1	1	1	1	1
CL302A	9965 000 18115	LEAD WIRE 8P/190	1	1	1	1	1	1
CL603A	9965 000 18116	LEAD WIRE 13P/190	1	1	1	1	1	1
CL604	9965 000 18088	WIRE ASSEMBLY 1P/45	1	1	1	1	1	1
CN201	9965 000 13840	FFC/FPC CONNECTOR, 12P 04 6232 112 103 800	1	1	1	1	1	1
CN303	9965 000 13841	CONNECTOR BASE, 5P TUC-P05P-B1	1	1	1	1	1	1
CN751	9965 000 13842	CONNECTOR BASE, 8P TUC-P08P-B1	1	1	1	1	1	1
CN752	9965 000 13843	CONNECTOR BASE, 6P TUC-P06P-B1	1	1	1	1	1	1
CN804	9965 000 13844	STRAIGHT CONNECTOR BASE 00 8283 0212 00 000	1	1	1	1	1	1
DIODES								
D151	9965 000 13848	ZENER DIODE MTZJT-777.5B	1	1	1	1	1	1
D152	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D201	9965 000 05250	LED SIR-563ST3F P	1	1	1	1	1	1
D202	9965 000 13846	LED(RED) L-1513EC	1	1	1	1	1	1
D204	9965 000 13846	LED(RED) L-1513EC	1	1	1	1	1	1
D205	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1
D206		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
D210	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D211	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D212	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D213	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D214	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D302	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D303	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D304	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D305	9965 000 11153	ZENER DIODE MTZJT-778.2B	1	1	1	1	1	1
D306	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D401	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D402	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D471	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D681		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1
D682	9965 000 13847	DIODE 1N5397-B	1	1	1	1	1	1
D686	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D687	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D688	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D690	9965 000 13848	ZENER DIODE MTZJT-777.5B	1	1	1	1	1	1
D691	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D693	9965 000 18090	ZENER DIODE MTZJT-776.2A	1	1	1	1	1	1
D694	9965 000 18091	ZENER DIODE MTZJT-7715B	1	1	1	1	1	1
D706	9965 000 12904	ZENER DIODE DZ-5.1BSBT265	1	1	1	1	1	1
D711	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1
D712	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D713	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D715	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D716	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1
IC's								
IC101	9965 000 12198	IC:VPS/PDC SLICER LC74793JM-TRM	1	1	1	1	1	1
IC151	9965 000 13853	AUDIO AMP LA4224	1	1	1	1	1	1
IC201	9965 000 18144	MICRO COMPUTER M37762MFA-BA0GP	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
IC202	9965 000 13030	IC:MEMORY BR24C04F-W	1	1	1	1	1	1
IC301	9965 000 18093	IC:CHROMA/IF 1 CHIP M61209BFP	1	1	1	1	1	1
IC401	9965 000 12180	IC:Y/C/A LA71750AM-MTB	1	1	1	1	1	1
IC471	9965 000 13927	IC:SECAM LA70100M-MPB	1	1	1	1	1	1
IC681	9965 000 13851	VOLTAGE REGULATOR KIA7805API	1	1	1	1	1	1
IC701	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1
IC702	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1
IC703	9965 000 13852	IC:SWITCH TC4053BF(N)	1	1	1	1	1	1
JACK'S								
JK151	9965 000 13855	HEADPHONE JACK MSJ-035-10A B	1	1	1	1	1	1
JK701	4822 265 11659	RCA JACK(YELLOW) MSP-281V4-B	1	1	1	1	1	1
JK702	4822 265 11661	RCA JACK(WHITE) MSP-281V1-B	1	1	1	1	1	1
JK703	9965 000 13854	SKIRT JACK 21P HRC-21V-02P	1	1	1	1	1	1
COILS								
J418F3	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1
L001		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
L151	9965 000 18094	INDUCTOR 1.8UH-J-26T	1	1	1	1	1	1
L152	9965 000 13856	INDUCTOR 1.0UH-J-26T	1	1	1	1	1	1
L201	9965 000 13857	INDUCTOR 0.10UH-K-26T	1	1	1	1	1	1
L302	9965 000 13858	INDUCTOR 33UH-J-26T	1	1	1	1	1	1
L303		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1
L304		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1
L305		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
L401	9965 000 13859	INDUCTOR 22UH-J-26T	1	1	1	1	1	1
L402	9965 000 13858	INDUCTOR 33UH-J-26T	1	1	1	1	1	1
L403	9965 000 13893	INDUCTOR 100UH-J-26T	1	1	1	1	1	1
L681	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1
L682		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1
L701	9965 000 13860	INDUCTOR 12UH-J-26T	1	1	1	1	1	1
L702	9965 000 13861	INDUCTOR 1.2UH-J-26T	1	1	1	1	1	1
L852	9965 000 05705	INDUCTOR 47UH-K-5FT	1	1	1	1	1	1
L854	9965 000 18095	INDUCTOR 0.22UH-K-26T	1	1	1	1	1	1
TRANSISTORS								
PI201	9965 000 12189	PHOTO INTERRUPTER RPI-302C70	1	1	1	1	1	1
Q204	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q205	9965 000 18096	PHOTO TRANSISTOR MID-32A22	1	1	1	1	1	1
Q206	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1
Q401	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1
Q681	9965 000 13862	TRANSISTOR 2SB892(S)	1	1	1	1	1	1
Q682	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q683	4822 130 10098	RES. BUILT-IN TRANSISTOR KRC103M	1	1	1	1	1	1
Q684	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1
Q684	4822 130 42292	TRANSISTOR KTC3203(Y)	1	1	1	1	1	1
Q685	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q686	9965 000 13863	TRANSISTOR 2SD1913(R)	1	1	1	1	1	1
Q701	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q702	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q703	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1
Q704	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1
Q705	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q706	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q707	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q708	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q709	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q710	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q711	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1
Q851	4822 130 10145	RES. BUILT-IN TRANSISTOR KRA103M	1	1	1	1	1	1
Q852	4822 130 10097	TRANSISTOR 2SC3331(T)	1	1	1	1	1	1
Q853	4822 130 10097	TRANSISTOR 2SC3331(T)	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
Q854	4822 130 42959	TRANSISTOR KTA1266(GR)	1	1	1	1	1	1
Q855	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1
Q855	4822 130 42292	TRANSISTOR KTC3203(Y)	1	1	1	1	1	1
Q856	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q857	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
RESISTORS								
R001		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1
R002		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R003	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
R004	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
R005		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1
R006		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1
R101		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R102		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1
R103		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1
R104		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R105		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R106		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R107		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1
R108		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1
R151		METAL OXIDE FILM RES. 1W J 12 OHM	1	1	1	1	1	1
R152		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1
R153		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R154		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1
R155		CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1
R156		CARBON RES. 1/4W J 47 OHM	1	1	1	1	1	1
R201		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R202		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1
R203		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R204		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1
R205		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R206		CHIP RES.(1608) 1/10W J 390K OHM	1	1	1	1	1	1
R207		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R208		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R209		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R210		CHIP RES. 1/10W F 4.7K OHM	1	1	1	1	1	1
R211		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1
R212		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1
R213		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R214		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R215		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R216		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1
R217		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1
R218		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1
R219		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R220		CHIP RES.(1608) 1/10W J 390K OHM	1	1	1	1	1	1
R221		CARBON RES. 1/4W J 270 OHM	1	1	1	1	1	1
R222		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R223		CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1
R224		CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1
R226		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R227		CHIP RES.(1608) 1/10W J 47 OHM	1	1	1	1	1	1
R228		CHIP RES.(1608) 1/10W J 100K OHM	1	1	1	1	1	1
R229		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1
R230		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R231		CHIP RES.(1608) 1/10W J 330K OHM	1	1	1	1	1	1
R232		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R233		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R234		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
R235		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R236		CHIP RES.(1608) 1/10W J 470 OHM	1	1	1	1	1	1
R237		CHIP RES.(1608) 1/10W J 1M OHM	1	1	1	1	1	1
R238		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R239		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R240		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R241		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1
R242		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1
R243		CHIP RES.(1608) 1/10W J 39K OHM	1	1	1	1	1	1
R244		CHIP RES.(1608) 1/10W J 220K OHM	1	1	1	1	1	1
R248		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R249		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R250		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1
R251		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1
R252		CARBON RES. 1/4W J 180 OHM	1	1	1	1	1	1
R253		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R254		CHIP RES.(1608) 1/10W J 100K OHM	1	1	1	1	1	1
R255		CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1
R256		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1
R257		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1
R258		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1
R259		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R260		CHIP RES. 1/10W F 1.5K OHM	1	1	1	1	1	1
R261		CHIP RES. 1/10W F 22K OHM	1	1	1	1	1	1
R262		CHIP RES. 1/10W F 470 OHM	1	1	1	1	1	1
R263		CHIP RES. 1/10W F 10K OHM	1	1	1	1	1	1
R264		CHIP RES. 1/10W F 3.6K OHM	1	1	1	1	1	1
R265		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R266		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R267		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R268		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1
R269		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1
R270		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R271		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R272		CHIP RES.(1608) 1/10W J 18K OHM	1	1	1	1	1	1
R273		CHIP RES.(1608) 1/10W J 18K OHM	1	1	1	1	1	1
R274		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R275		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1
R276		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R277		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1
R278		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R279		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1
R280		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R281		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1
R282		CARBON RES. 1/4W J 330 OHM	1	1	1	1	1	1
R287		CHIP RES.(1608) 1/10W J 470 OHM	1	1	1	1	1	1
R288		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1
R289		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1
R301		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1
R302		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R303		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R304		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1
R305		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1
R306		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R307		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1
R308		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R309		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1
R310		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R311		CARBON RES. 1/4W J 12 OHM	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
R312		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R313		CHIP RES.(1608) 1/10W J 220K OHM	1	1	1	1	1	1
R314		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R315		CHIP RES.(1608) 1/10W J 150K OHM	1	1	1	1	1	1
R316		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1
R317		CARBON RES. 1/4W J 220K OHM	1	1	1	1	1	1
R318		CHIP RES.(1608) 1/10W J 6.8K OHM	1	1	1	1	1	1
R320		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R321		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1
R322		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1
R323		CHIP RES.(1608) 1/10W J 15K OHM	1	1	1	1	1	1
R324		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R325		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R326		CHIP RES.(1608) 1/10W J 6.8K OHM	1	1	1	1	1	1
R327		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R328		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1
R332		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R333		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R334		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R335		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1
R336		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R339		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1
R340		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1
R401		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1
R402		CHIP RES.(1608) 1/10W J 8.2K OHM	1	1	1	1	1	1
R405		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R406		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1
R407		CHIP RES.(1608) 1/10W J 390K OHM	1	1	1	1	1	1
R408		CHIP RES.(1608) 1/10W J 330 OHM	1	1	1	1	1	1
R409		CHIP RES.(1608) 1/10W J 330 OHM	1	1	1	1	1	1
R410		CHIP RES.(1608) 1/10W J 220 OHM	1	1	1	1	1	1
R411		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R412		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R413		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1
R414		CHIP RES.(1608) 1/10W J 6.8K OHM	1	1	1	1	1	1
R415		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R416		CHIP RES.(1608) 1/10W J 1.2K OHM	1	1	1	1	1	1
R417		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R418		CHIP RES.(1608) 1/10W J 56K OHM	1	1	1	1	1	1
R420		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R422		CHIP RES.(1608) 1/10W J 150 OHM	1	1	1	1	1	1
R423		CHIP RES.(1608) 1/10W J 33 OHM	1	1	1	1	1	1
R424		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R425		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1
R426		CHIP RES.(1608) 1/10W 0 OHM	1	1	1	1	1	1
R471		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1
R681		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1
R682		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1
R683		METAL OXIDE FILM RES. 1W J 2.2 OHM	1	1	1	1	1	1
R684		CHIP RES.(1608) 1/10W J 10 OHM	1	1	1	1	1	1
R685		CARBON RES. 1/4W J 6.8K OHM	1	1	1	1	1	1
R686		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R687		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1
R690		METAL OXIDE FILM RES. 1W J 22 OHM	1	1	1	1	1	1
R691		METAL OXIDE FILM RES. 1W J 5.6 OHM	1	1	1	1	1	1
R692		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R693		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1
R694		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R696		METAL OXIDE FILM RES. 1W J 2.2 OHM	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
R697		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R698		CHIP RES.(1608) 1/10W J 8.2K OHM	1	1	1	1	1	1
R701		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1
R702		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R703		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R704		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R705		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1
R706		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R707		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R708		CHIP RES.(1608) 1/10W J 1.5K OHM	1	1	1	1	1	1
R709		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1
R710		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1
R711		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1
R712		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R714		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1
R723		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1
R724		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1
R725		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1
R726		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R727		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1
R728		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1
R729		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1
R730		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R731		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R732		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1
R733		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1
R734		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R735		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1
R736		CARBON RES. 1/4W J 750 OHM	1	1	1	1	1	1
R737		CHIP RES.(1608) 1/10W J 75 OHM	1	1	1	1	1	1
R738		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R739		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R740		CHIP RES.(1608) 1/10W J 33K OHM	1	1	1	1	1	1
R741		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R742		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1
R743		CHIP RES.(1608) 1/10W J 6.2K OHM	1	1	1	1	1	1
R744		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1
R745		CHIP RES.(1608) 1/10W J 6.2K OHM	1	1	1	1	1	1
R746		CHIP RES.(1608) 1/10W J 47K OHM	1	1	1	1	1	1
R747		CHIP RES.(1608) 1/10W J 6.2K OHM	1	1	1	1	1	1
R748		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1
R749		CHIP RES.(1608) 1/10W J 10K OHM	1	1	1	1	1	1
R750		CHIP RES.(1608) 1/10W J 2.7K OHM	1	1	1	1	1	1
R751		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1
R752		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R753		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1
R754		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1
R755		CHIP RES.(1608) 1/10W J 470 OHM	1	1	1	1	1	1
R756		CHIP RES.(1608) 1/10W J 1K OHM	1	1	1	1	1	1
R757		CHIP RES.(1608) 1/10W J 470K OHM	1	1	1	1	1	1
R851		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1
R852		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1
R853		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1
R854		CHIP RES.(1608) 1/10W J 2.2K OHM	1	1	1	1	1	1
R856		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1
R857		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1
R858		CARBON RES. 1/4W J 820 OHM	1	1	1	1	1	1
R859		CHIP RES.(1608) 1/10W J 680 OHM	1	1	1	1	1	1
R860		CHIP RES.(1608) 1/10W J 22K OHM	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
R861		CHIP RES.(1608) 1/10W J 330K OHM	1	1	1	1	1	1
R862		CHIP RES.(1608) 1/10W J 12K OHM	1	1	1	1	1	1
R863		CHIP RES.(1608) 1/10W J 120 OHM	1	1	1	1	1	1
R864		CHIP RES.(1608) 1/10W J 560 OHM	1	1	1	1	1	1
R865		CHIP RES.(1608) 1/10W J 1.8K OHM	1	1	1	1	1	1
R866		CHIP RES.(1608) 1/10W J 12K OHM	1	1	1	1	1	1
R867		CHIP RES.(1608) 1/10W J 100 OHM	1	1	1	1	1	1
R869		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1
R870		CHIP RES.(1608) 1/10W J 56K OHM	1	1	1	1	1	1
R871		CHIP RES.(1608) 1/10W J 1M OHM	1	1	1	1	1	1
R873		CHIP RES.(1608) 1/10W J 3.3K OHM	1	1	1	1	1	1
R874		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R875		CHIP RES.(1608) 1/10W J 56K OHM	1	1	1	1	1	1
R876		CHIP RES.(1608) 1/10W J 4.7K OHM	1	1	1	1	1	1
R877		CHIP RES.(1608) 1/10W J 15K OHM	1	1	1	1	1	1
R878		CHIP RES.(1608) 1/10W J 12K OHM	1	1	1	1	1	1
R879		CHIP RES.(1608) 1/10W J 5.6K OHM	1	1	1	1	1	1
RS201	9965 000 10857	REMOTE RECEIVER PIC-37042LU	1	1	1	1	1	1
RS201		REMOCON RESEVER MIM-93M6DKF-C	1	1	1	1	1	1
SWITCHES								
SW201	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW202	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW203	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW204	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW205	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW206	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW207	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW208	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW209	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW210	9965 000 14390	TACT SWITCH SKQNAED010	1	1	1	1	1	1
SW211	9965 000 12192	LEAF SWITCH MXS00052MPP0	1	1	1	1	1	1
SW212	9965 000 16626	ROTARY MODE SWITCH SSS-50MD	1	1	1	1	1	1
MISCELLANEOUS								
TB3	9965 000 18113	HEAD SHIELD S T6400RA	1	1	1	1	1	1
TB7	9965 000 18114	LED HOLDER T6400RA	1	1	1	1	1	1
TB15	9965 000 12173	ROHM HOLDER H7770JD	1	1	1	1	1	1
TB21	9965 000 08566	BUSH, LED(F) H3700UD	1	1	1	1	1	1
TP001		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1
TP002		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1
TP003		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1
TP006		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1
TP007		PCB JUMPER D0.6-P10.0	1	1	1	1	1	1
TP008		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1
TP009		PCB JUMPER D0.6-P12.5	1	1	1	1	1	1
TP010		PCB JUMPER D0.6-P22.5	1	1	1	1	1	1
X201	9965 000 09200	XTAL 32.768KHZ(20PPM)	1	1	1	1	1	1
X202	9965 000 12194	XTAL 12.000MHZ	1	1	1	1	1	1
X301	9965 000 13869	XTAL 4.433619MHZ	1	1	1	1	1	1
X401	9965 000 05629	XTAL 4.433619MHZ	1	1	1	1	1	1
JUNCTION A CBA								
CN603	9965 000 18089	CONNECTOR 13P TUC-P13X-B1	1	1	1	1	1	1
JUNCTION B CBA								
CN302	9965 000 13916	CONNECTOR, 8P TUC-P08X-B1	1	1	1	1	1	1
JUNCTION C CBA								
CN301	9965 000 05261	CONNECTOR 4P TUC-P04X-B1	1	1	1	1	1	1
SENSOR CBA								
Q201	9965 000 18096	PHOTO TRANSISTOR MID-32A22	1	1	1	1	1	1
Q202	9965 000 18096	PHOTO TRANSISTOR MID-32A22	1	1	1	1	1	1
POWER CBA								

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
COILS								
BC551	9965 000 13874	BEAD INDUCTORS FBA04HA600VB-00	1	1	1	1	1	1
BC602	9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1
BC604	9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1
BC605	9965 000 13875	BEAD INDUCTORS FBR07HA121TB-00	1	1	1	1	1	1
CAPACITORS								
C551		ELECTROLYTIC CAP. 2.2UF/50V M LL	1	1	1	1	1	1
C552		ELECTROLYTIC CAP. 1000UF/25V M	1	1	1	1	1	1
C553		CERAMIC CAP. (AX) B K 0.01UF/50V	1	1	1	1	1	1
C554		ELECTROLYTIC CAP. 470UF/35V M	1	1	1	1	1	1
C555	9965 000 14863	ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1
C556		ELECTROLYTIC CAP. 2.2UF/50V M	1	1	1	1	1	1
C558		FILM CAP.(P) 0.047UF/50V J	1	1	1	1	1	1
C559		CERAMIC CAP. R K 680PF/2KV(HR)	1	1	1	1	1	1
C560		P.P. CAP 0.0082UF/1.6K J	1	1	1	1	1	1
C561		FILM CAP.(P) 0.01UF/50V J	1	1	1	1	1	1
C562	9965 000 14863	ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1
C565		ELECTROLYTIC CAP. 47UF/160V M W/F	1	1	1	1	1	1
C567		ELECTROLYTIC CAP. 1UF/160V M	1	1	1	1	1	1
C569		ELECTROLYTIC CAP. 4.7UF/250V M	1	1	1	1	1	1
C570	9965 000 13908	ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C572		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1
C575		P.P. CAP 0.18UF/200V J	1	1	1	1	1	1
C576		P.P. CAP 0.15UF/200V J	1	1	1	1	1	1
C577		ELECTROLYTIC CAP. 100UF/35V M	1	1	1	1	1	1
C602	▲ 2020 554 90173	SAFETY CAP. 2200PF/250V KX	1	1	1	1	1	1
C604	▲ 9965 000 14280	METALLIZED FILM CAP. 0.1UF/250V	1	1	1	1	1	1
C605	▲ 9965 000 14280	METALLIZED FILM CAP. 0.1UF/250V	1	1	1	1	1	1
C607		CERAMIC CAP. 0.01UF/AC250V	1	1	1	1	1	1
C608		CERAMIC CAP. 0.01UF/AC250V	1	1	1	1	1	1
C609		CERAMIC CAP. 0.01UF/AC250V	1	1	1	1	1	1
C610		CERAMIC CAP. 0.01UF/AC250V	1	1	1	1	1	1
C611		ELECTROLYTIC CAP. 100UF/400V M	1	1	1	1	1	1
C613		FILM CAP.(P) 0.039UF/50V J	1	1	1	1	1	1
C614		FILM CAP.(P) 0.0012UF/50V J	1	1	1	1	1	1
C615		FILM CAP.(P) 0.068UF/50V J	1	1	1	1	1	1
C616		CERAMIC CAP. R K 220PF/2KV(HR)	1	1	1	1	1	1
C617		ELECTROLYTIC CAP. 470UF/25V M	1	1	1	1	1	1
C618	9965 000 13908	ELECTROLYTIC CAP. 1UF/50V M	1	1	1	1	1	1
C619		ELECTROLYTIC CAP. 1000UF/16V M	1	1	1	1	1	1
C621		ELECTROLYTIC CAP. 470UF/16V M	1	1	1	1	1	1
C622		ELECTROLYTIC CAP. 1000UF/16V M	1	1	1	1	1	1
C624		CERAMIC CAP. (AX) SL J 68PF/50V	1	1	1	1	1	1
C625		ELECTROLYTIC CAP. 470UF/35V M	1	1	1	1	1	1
C626		CERAMIC CAP. R K 680PF/2KV(HR)	1	1	1	1	1	1
C627		ELECTROLYTIC CAP. 100UF/160V M	1	1	1	1	1	1
C629		CERAMIC CAP. (AX) B K 0.01UF/50V	1	1	1	1	1	1
C630		ELECTROLYTIC CAP. 1000UF/6.3V M	1	1	1	1	1	1
C631		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1
C632		ELECTROLYTIC CAP. 100UF/16V M	1	1	1	1	1	1
C633	9965 000 14863	ELECTROLYTIC CAP. 47UF/25V M	1	1	1	1	1	1
C634		ELECTROLYTIC CAP. 4.7UF/50V M	1	1	1	1	1	1
C635		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1
C636		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1
CONNECTORS								
CN551	9965 000 13876	CONNECTOR BASE, 5P TV-50P-05-V3	1	1	1	1	1	1
CN552	9965 000 13842	CONNECTOR BASE, 8P TUC-P08P-B1	1	1	1	1	1	1
CN601	9965 000 13877	CONNECTOR BASE, 2P TV-50P-02-V3	1	1	1	1	1	1
CN602	9965 000 18117	CONNECTOR BASE 13P TUC-P13P-B1	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
DIODES								
D551	9965 000 13847	DIODE 1N5397-B	1	1	1	1	1	1
D553	9965 000 13882	ZENER DIODE MTZJT-7718B	1	1	1	1	1	1
D554	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D555	9965 000 13879	DIODE FR154	1	1	1	1	1	1
D556	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D557	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1
D557	9965 000 18118	RECTIFIER DIODE ERA22-02	1	1	1	1	1	1
D558	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1
D558	9965 000 18118	RECTIFIER DIODE ERA22-02	1	1	1	1	1	1
D560	9965 000 13881	ZENER DIODE MTZJT-7736B	1	1	1	1	1	1
D561		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
D562	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D563	9965 000 12904	ZENER DIODE DZ-5.1BSBT265	1	1	1	1	1	1
D564	9965 000 18119	ZENER DIODE DZ-3.3BSBT265	1	1	1	1	1	1
D601	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1
D602	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1
D603	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1
D604	9965 000 13883	DIODE 1N5399-B/P	1	1	1	1	1	1
D605	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D609	9965 000 05249	ZENER DIODE MTZJT-775.6B	1	1	1	1	1	1
D610	9965 000 13884	ZENER DIODE MTZJT-7720C	1	1	1	1	1	1
D612	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D613	4822 130 83883	RECTIFIER DIODE FR202	1	1	1	1	1	1
D614	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D615	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1
D615	9965 000 18118	RECTIFIER DIODE ERA22-02	1	1	1	1	1	1
D616	9965 000 13882	ZENER DIODE MTZJT-7718B	1	1	1	1	1	1
D617	4822 130 83194	SCHOTTKY BARRIER DIODE 11EQS04	1	1	1	1	1	1
D618	4822 130 83194	SCHOTTKY BARRIER DIODE 11EQS04	1	1	1	1	1	1
D619	4822 130 80601	SCHOTTKY BARRIER DIODE ERB81-004	1	1	1	1	1	1
D620	9965 000 13880	DIODE FR104-B	1	1	1	1	1	1
D620	9965 000 18118	RECTIFIER DIODE ERA22-02	1	1	1	1	1	1
D621	9965 000 13886	DIODE 12C33	1	1	1	1	1	1
D622	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D623	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D624	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D625	4822 130 11629	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1
D626	9965 000 13885	FAST RECOVERY DIODE CA201-4	1	1	1	1	1	1
D627	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D629	4822 130 81729	ZENER DIODE MTZJT-7733C	1	1	1	1	1	1
D630	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D631	9965 000 13888	ZENER DIODE MTZJT-776.8A	1	1	1	1	1	1
D632	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
D633	9965 000 13889	ZENER DIODE MTZJT-7724B	1	1	1	1	1	1
D634		CARBON RES. 1/6W J 100 OHM	1	1	1	1	1	1
D635	9965 000 11153	ZENER DIODE MTZJT-778.2B	1	1	1	1	1	1
D636	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D637	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D638	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D640	4822 130 11629	ZENER DIODE MTZJT-776.8B	1	1	1	1	1	1
F601	▲ 9965 000 13890	FUSE 4A/250V 215004	1	1	1	1	1	1
FH601	4822 256 10461	FUSE HOLDER MSF-015	1	1	1	1	1	1
FH602	4822 256 10461	FUSE HOLDER MSF-015	1	1	1	1	1	1
IC's								
IC551	9965 000 18120	VERTICAL OUTPUT IC LA78040A	1	1	1	1	1	1
IC601	▲ 9965 000 13892	PHOTO COUPLER LTV817MBF	1	1	1	1	1	1
COILS								
L552		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
L553	9965 000 18121	CHOKE COIL 22UH-K	1	1	1	1	1	1
L554	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1
L601	9965 000 13894	LINE FILTER ELF15N007A	1	1	1	1	1	1
L602	9965 000 13894	LINE FILTER ELF15N007A	1	1	1	1	1	1
L603	9965 000 05627	CHOKE COIL 47UH-K	1	1	1	1	1	1
MISCELLANEOUS								
PB1	9965 000 18122	POWER PCB HOLDER T6400RA	1	1	1	1	1	1
PB4		13V POW HEAT SINK PAL PHKT6400RA	1	1	1	1	1	1
PB5	9965 000 18123	13V P H/S PAL PHM ASSEMBLY T6400RA	1	1	1	1	1	1
PL1	9965 000 08646	SCREW, P-TIGHT 3X12 WASHER HEAD+	1	1	1	1	1	1
PL2	9965 000 12171	SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1
PS602	9965 000 13896	THERMISTOR ZPB31BL9R0A	1	1	1	1	1	1
TRANSISTORS								
Q551	9965 000 13897	TRANSISTOR TT2084LS-YB11	1	1	1	1	1	1
Q553	9965 000 13899	TRANSISTOR 2SC1627Y-TPE2	1	1	1	1	1	1
Q554	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q602	9965 000 13901	MOS FET 2SK2647	1	1	1	1	1	1
Q603	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1
Q603	4822 130 42292	TRANSISTOR KTC3203(Y)	1	1	1	1	1	1
Q604	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
Q605	4822 130 63665	TRANSISTOR 2SA950(O)	1	1	1	1	1	1
Q606	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1
Q607	4822 130 42292	TRANSISTOR 2SC2120-Y(TPE2)	1	1	1	1	1	1
Q608	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
RESISTORS								
R551		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1
R552		CARBON RES. 1/4W J 3.3K OHM	1	1	1	1	1	1
R553		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1
R554		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R555		CARBON RES. 1/4W J 5.6 OHM	1	1	1	1	1	1
R556		CARBON RES. 1/4W J 5.6 OHM	1	1	1	1	1	1
R557	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
R558		CARBON RES. 1/4W J 4.7 OHM	1	1	1	1	1	1
R559		CARBON RES. 1/4W J 4.7 OHM	1	1	1	1	1	1
R560		CARBON RES. 1/4W J 4.7 OHM	1	1	1	1	1	1
R561		CARBON RES. 1/4W J 4.7 OHM	1	1	1	1	1	1
R564		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1
R565		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R566		CARBON RES. 1/4W J 470 OHM	1	1	1	1	1	1
R568		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R569		CARBON RES. 1/4W J 270 OHM	1	1	1	1	1	1
R570		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R572		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1
R573		METAL OXIDE FILM RES. 2W J 150 OHM	1	1	1	1	1	1
R574		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R577		METAL OXIDE FILM RES. 2W J 1.5K OHM	1	1	1	1	1	1
R578		METAL OXIDE FILM RES. 2W J 1.5K OHM	1	1	1	1	1	1
R579		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1
R580		METAL OXIDE FILM RES. 2W J 1.5K OHM	1	1	1	1	1	1
R581		CARBON RES. 1/4W J 100K OHM	1	1	1	1	1	1
R583		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R584		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R585		CARBON RES. 1/4W J 180K OHM	1	1	1	1	1	1
R586		CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1
R587		CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1
R588		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1
R589	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
R590		METAL OXIDE FILM RES. 2W J 2.2 OHM	1	1	1	1	1	1
R591		CARBON RES. 1/4W J 22K OHM	1	1	1	1	1	1

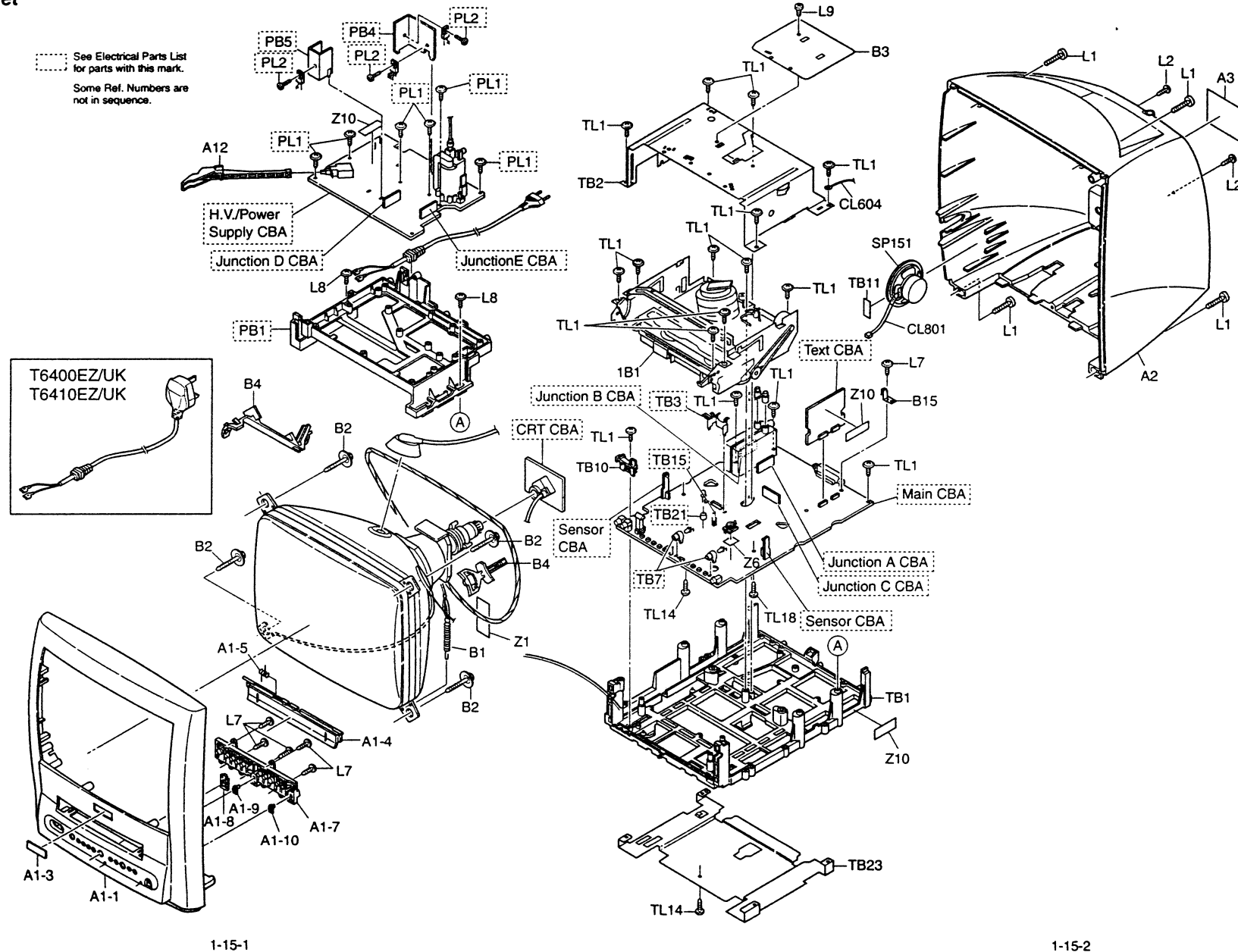
ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
R592	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
R593		CARBON RES. 1/4W J 8.2K OHM	1	1	1	1	1	1
R594		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1
R595		CARBON RES. 1/4W J 2.7 OHM	1	1	1	1	1	1
R601		ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1
R602		ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1
R603		ANTI-SURGE RESISTOR 1/2W J 3.3M OHM	1	1	1	1	1	1
R604	▲ 9965 000 14277	CEMENT RESISTOR 5W 1.8 OHM	1	1	1	1	1	1
R605		CARBON RES. 1/4W J 56 OHM	1	1	1	1	1	1
R611		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1
R612		CARBON RES. 1/4W J 180 OHM	1	1	1	1	1	1
R613		CARBON RES. 1/4W J 470K OHM	1	1	1	1	1	1
R615		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R616		CARBON RES. 1/4W J 22 OHM	1	1	1	1	1	1
R617	▲ 9965 000 14278	CEMENT RES. 5W K 0.68 OHM	1	1	1	1	1	1
R618		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R619		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1
R620		CARBON RES. 1/4W J 820K OHM	1	1	1	1	1	1
R621		CARBON RES. 1/4W J 560K OHM	1	1	1	1	1	1
R622		CARBON RES. 1/4W J 680K OHM	1	1	1	1	1	1
R624		CARBON RES. 1/4W J 680K OHM	1	1	1	1	1	1
R625		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1
R626		CARBON RES. 1/4W J 1.2K OHM	1	1	1	1	1	1
R627		CARBON RES. 1/4W J 2.2 OHM	1	1	1	1	1	1
R628		CARBON RES. 1/4W J 820 OHM	1	1	1	1	1	1
R631		CARBON RES. 1/4W J 33K OHM	1	1	1	1	1	1
R632	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
R633		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1
R634		CARBON RES. 1/4W J 15K OHM	1	1	1	1	1	1
R635		CARBON RES. 1/4W J 180 OHM	1	1	1	1	1	1
R636		CARBON RES. 1/4W J 680 OHM	1	1	1	1	1	1
R637		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1
R638		CARBON RES. 1/4W J 39K OHM	1	1	1	1	1	1
R639		CARBON RES. 1/4W J 39K OHM	1	1	1	1	1	1
R640		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1
R641		CARBON RES. 1/2W J 1K OHM	1	1	1	1	1	1
R642	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
R643		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1
R644		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1
R645		CARBON RES. 1/4W J 56K OHM	1	1	1	1	1	1
R646		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1
R647		CARBON RES. 1/4W J 2.7K OHM	1	1	1	1	1	1
R649		CARBON RES. 1/4W J 390 OHM	1	1	1	1	1	1
R651		CARBON RES. 1/4W J 100 OHM	1	1	1	1	1	1
R652		METAL OXIDE FILM RES. 2W J 22 OHM	1	1	1	1	1	1
R653		CARBON RES. 1/4W J 150 OHM	1	1	1	1	1	1
R654		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1
R655		CARBON RES. 1/4W J 5.6K OHM	1	1	1	1	1	1
R656		CARBON RES. 1/4W J 47K OHM	1	1	1	1	1	1
R657		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1
R658		METAL OXIDE FILM RES. 2W J 10K OHM	1	1	1	1	1	1
R659		METAL OXIDE FILM RES. 2W J 10K OHM	1	1	1	1	1	1
R660		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R661		CARBON RES. 1/4W J 1.8K OHM	1	1	1	1	1	1
R662		CARBON RES. 1/4W J 820K OHM	1	1	1	1	1	1
SA601	▲ 9965 000 13898	SURGE ABSORBER PVR-07D471KB	1	1	1	1	1	1
SW601	▲ 9965 000 13902	POWER SWITCH SDKVA30100	1	1	1	1	1	1
TRANSISTORS								
T551	9965 000 18124	FLYBACK TRANS BSC23-2603S	1	1	1	1	1	1

ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
T552	9965 000 13904	HORIZONTAL DRIVE TRANS LP2-005	1	1	1	1	1	1
T601	▲ 9965 000 18125	SWITCHING TRANS 03701	1	1	1	1	1	1
TM601	▲	TAB 42018	1	1	1	1	1	1
TM602	▲	TAB 42018	1	1	1	1	1	1
TP501		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1
TP502		PCB JUMPER D0.6-P7.5	1	1	1	1	1	1
TP503		PCB JUMPER D0.6-P15.0	1	1	1	1	1	1
TP504		PCB JUMPER D0.6-P15.0	1	1	1	1	1	1
VR601	9965 000 13906	CARBON P.O.T. 10K OHM B	1	1	1	1	1	1
CAPACITORS								
C501		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1
C502		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1
C503		CERAMIC CAP.(AX) B K 220PF/50V	1	1	1	1	1	1
C504		CERAMIC CAP. B K 1000PF/2KV	1	1	1	1	1	1
C505		ELECTROLYTIC CAP. 1UF/50V M H7	1	1	1	1	1	1
CONNECTORS								
CL501A	9965 000 18126	LEAD WIRE 3P/230	1	1	1	1	1	1
CN501	9965 000 13911	PIN CONNECTOR 005P-5100	1	1	1	1	1	1
CN502	9965 000 05247	CONNECTOR BASE, 4P TUC-P04P-B1	1	1	1	1	1	1
JK501	9965 000 13913	CRT SOCKET ISMS01S	1	1	1	1	1	1
		COILS						
L501		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
TRANSISTORS								
Q501	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1
Q502	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1
Q503	4822 130 60578	TRANSISTOR 2SC2482 TPE6	1	1	1	1	1	1
RESISTORS								
R501		METAL OXIDE FILM RES. 1W J 18K OHM	1	1	1	1	1	1
R502		METAL OXIDE FILM RES. 1W J 18K OHM	1	1	1	1	1	1
R503		METAL OXIDE FILM RES. 1W J 18K OHM	1	1	1	1	1	1
R504		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R505		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R506		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R507		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R510		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R511		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R512		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R513		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R514		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R515		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1
R516		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1
R517		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1
R518		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1
R519		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1
R520		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1
R521		CARBON RES. 1/4W J 120K OHM	1	1	1	1	1	1
R522		CARBON RES. 1/4W J 15 OHM	1	1	1	1	1	1
R523		CARBON RES. 1/4W J 560 OHM	1	1	1	1	1	1
TEXT CBA								
CAPACITORS								
C901		ELECTROLYTIC CAP. 22UF/50V M	1	1	1	1	1	1
C902		CERAMIC CAP.(AX) B K 100PF/50V	1	1	1	1	1	1
C903		ELECTROLYTIC CAP. 0.1UF/50V M	1	1	1	1	1	1
C904		ELECTROLYTIC CAP. 0.1UF/50V M	1	1	1	1	1	1
C905		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1
C906		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1
C916		CERAMIC CAP.(AX) CH J 18PF/50V	1	1	1	1	1	1
C917		CERAMIC CAP.(AX) CH J 18PF/50V	1	1	1	1	1	1
C920		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1

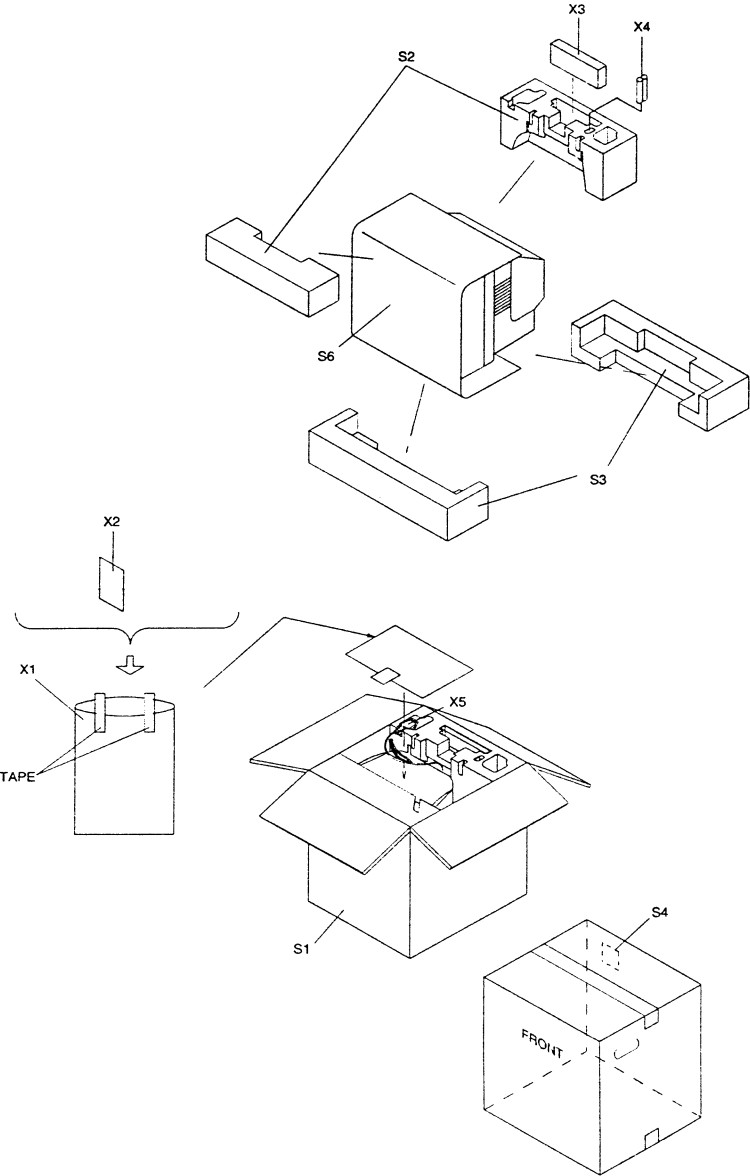
ELECTRICAL PARTS LIST			14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	▲ 12 NC	Description						
C921		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1
C922		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1
C923		ELECTROLYTIC CAP. 100UF/10V M	1	1	1	1	1	1
C926		CERAMIC CAP.(AX) Y M 0.01UF/16V	1	1	1	1	1	1
CONNECTORS								
CN901	9965 000 13916	CONNECTOR, 8P TUC-P08X-B1	1	1	1	1	1	1
CN902	9965 000 13917	CONNECTOR, 6P TUC-P06X-B1	1	1	1	1	1	1
DIODES								
D901	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D902	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D903	9965 000 18140	ZENER DIODE MTZJT-773.68	1	1	1	1	1	1
D904	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D905	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D906	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D907	4822 130 32778	SWITCHING DIODE 1SS133(T-77)	1	1	1	1	1	1
D908	9965 000 18119	ZENER DIODE DZ-3.3BSBT265	1	1	1	1	1	1
D909	9965 000 18119	ZENER DIODE DZ-3.3BSBT265	1	1	1	1	1	1
IC's								
IC901	9965 000 18141	IC:TEXT SAA5265	1	1	1	1	1	1
COILS								
L901	9965 000 18142	INDUCTOR 10UH-J-26T	1	1	1	1	1	1
L902	9965 000 18142	INDUCTOR 10UH-J-26T	1	1	1	1	1	1
TRANSISTORS								
Q901	9965 000 05643	TRANSISTOR 2SC2785(F)	1	1	1	1	1	1
RESISTORS								
R901		CARBON RES. 1/4W J 2.2K OHM	1	1	1	1	1	1
R902		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R903		CARBON RES. 1/4W J 24K OHM	1	1	1	1	1	1
R904	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
R905	9965 000 09896	CARBON RES. 1/4W J 10K OHM	1	1	1	1	1	1
R906		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R908		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R911		CARBON RES. 1/4W J 1.5K OHM	1	1	1	1	1	1
R912		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R913		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R914		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R915		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R916		CARBON RES. 1/4W J 220 OHM	1	1	1	1	1	1
R918		METAL OXIDE FILM RES. 2W J 56 OHM	1	1	1	1	1	1
R919		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R920		PCB JUMPER D0.6-P5.0	1	1	1	1	1	1
R921		CARBON RES. 1/4W J 3.3K OHM	1	1	1	1	1	1
R922		CARBON RES. 1/4W J 3.3K OHM	1	1	1	1	1	1
R923		CARBON RES. 1/4W J 3.3K OHM	1	1	1	1	1	1
R924		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
R925		CARBON RES. 1/4W J 10 OHM	1	1	1	1	1	1
R926		CARBON RES. 1/4W J 4.7K OHM	1	1	1	1	1	1
R927		CARBON RES. 1/4W J 1K OHM	1	1	1	1	1	1
X901	9965 000 12194	XTAL 12.000MHZ	1	1	1	1	1	1

# EXPLODED VIEWS

## Cabinet



Packing



PRODUCT SAFETY NOTE: Products marked with a ▲

have special characteristics important to safety.  
Before replacing any of these components, read carefully  
the product safety notice in this service manual.  
Don't degrade the safety of the product through improper servicing.

\*)Note:

Pos.1 consists of	A1-1	A1-8
	A1-3	A1-9
	A1-4	A1-10
	A1-5	L7
	A1-7	

MECHANICAL PARTS LIST				14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	Pos. Expl. View	▲ 12 NC	Description						
0001	*)	3143 027 60011	FRONT ASSY 14PV360/01				1		
0001	*)	3143 027 60241	FRONT ASSY 14PV374/39		1				
0001	*)	3143 027 60221	FRONT ASSY 14PV374/01/58	1		1			
0001	*)	3143 027 60061	FRONT ASSY 14PV360/07					1	
0001	*)	3143 027 60071	FRONT ASSY 14PV360/39						1
0001	A1-1		FRONT CAB (A) GR PH001	1	1	1	1	1	1
0011	A1-3		WORDMARK PHILIPS				1	1	1
0011	A1-3		WORDMARK PHILIPS	1	1	1			
0005	A1-4		CASSETTE DOOR (A) GR PH001	1	1	1	1	1	1
0006	A1-5		LEG SPRING	1	1	1	1	1	1
0007	A1-8		LED LENS A (C)	1	1	1	1	1	1
0008	A1-8		LED LENS A (R)	1	1	1	1	1	1
0010	L7	4822 502 14109	SCR PAN TORX TAP ST ZN BK 3X10	1	1	1	1	1	1
0009			FUNCTION KNOB (A) GR PH001	1	1	1	1	1	1
0005	A1-7	3143 027 50391	FUNCTION KNOB "A" LIGHT BLUE METALLIC	1	1	1			
0005	A1-7	3143 027 50381	FUNCTION KNOB "A" SILVER SHADOW				1	1	1
0031	B15	3143 021 20021	TE HOLDER	1	1	1	1	1	1
0055	L1	4822 502 14062	SCREW	1	1	1	1	1	1
0056	L2		TORX HEAD TAPPING SCREW M4X12	1	1	1	1	1	1
0059	TL1	4822 502 14109	SCR PAN TORX TAP ST ZN BK 3X10	1	1	1	1	1	1
0070	A2	3143 027 50031	REAR CAB PH003	1	1	1			
0070	A2	3143 027 50131	REAR CAB PH001				1	1	1
0071	A12	3143 027 50191	POWER BUTTON PH001				1	1	1
0071	A12	3143 027 50121	POWER BUTTON PH003	1	1	1			
1010	SP151	9965 000 18085	SPEAKER ASSY	1	1	1	1	1	1
			SPEAKER S08F02B	1	1	1	1	1	1
0002	B4	4822 402 10174	BACKET ==>14"	1	1	1	1	1	1
0004	B1	3143 021 20031	TENSION SPRING	1	1	1	1	1	1
0030	B3	3143 021 20011	SCREENING	1	1	1	1	1	1
0015		3143 027 50351	CABLE CLAMP	1	1	1	1	1	1
0054	B2		SCREW ==>CRT	1	1	1	1	1	1
0057	L8		FLAT HEAD SCREW 4X18	1	1	1	1	1	1
0058	TL1		SHIELD PLATE SCREW M3X4	1	1	1	1	1	1
1100			CRT A34EAC01X71 (PHCO) B	1	1	1	1	1	1
TB1			DECK ASSEMBLY CZD012/VM17A6	1	1	1	1	1	1
CL801			WIRE ASSEMBLY (SPEAKER) 2P/200	1	1	1	1	1	1
TB1			TRAY CHASSIS T6400RA	1	1	1	1	1	1
TB2			TOP COVER T6300RA	1	1	1	1	1	1
TB10		9965 000 18086	RCA HOLDER T6400RA	1	1	1	1	1	1
TB11			CLOTH(10X30XT:0.3) T5300UA	1	1	1	1	1	1
TB23			BOTTOM PLATE T6300RA	1	1	1	1	1	1
TL1		9965 000 08646	SCREW, P-TIGHT 3X12 WASHER HEAD+	1	1	1	1	1	1

# DECK MECHANISM SECTION

## TV-VCR COMBINATION

- Sec. 2: Deck Mechanism Section
- Standard Maintenance
  - Mechanism Alignment Procedures
  - Disassembly / Assembly of Mechanism
  - Deck Exploded Views
  - Deck Parts List

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MECHANICAL PARTS LIST				14PV374/01	14PV374/39	14PV374/58	14PV375/01	14PV375/07	14PV375/39
Pos.	Pos. Expl. View	▲ 12 NC	Description						
TL14		9965 000 12171	SCREW, B-TIGHT M3X8 BIND HEAD+	1	1	1	1	1	1
PACKING									
0450	S1		BOX FOLDED 14PV37X	1	1	1	1	1	1
0453	S2		STYROFOAM TOP A	1	1	1	1	1	1
0454	S2		STYROFOAM BOTTOM A	1	1	1	1	1	1
0455	X1		BAG (==>MAINS CORD)	1	1	1	1	1	1
0469	S6		TOPFOIL	1	1	1	1	1	1
0471			STRETCHFOIL 500/15	1	1	1	1	1	1
0150	X3	9965 000 18143	RC RT352/111	1	1	1	1	1	1
TEST TAPES									
0001		3143 023 20011	TEST TAPE FL6K(S)	1	1	1	1	1	1
0002		3143 023 20021	TEST TAPE FL6NS8	1	1	1	1	1	1
0003		3143 023 20031	TEST TAPE FSLT-120	1	1	1	1	1	1
0004		3143 023 20041	TEST TAPE FL6M	1	1	1	1	1	1

## STANDARD MAINTENANCE

### Service Schedule of Components

H: Hours ○: Check ●: Change

Deck		Periodic Service Schedule			
Ref.No.	Part Name	1,000 H	2,000 H	3,000 H	4,000 H
B2	Cylinder Assembly	○	●	○	●
B3	Loading Motor Assembly			●	
B8	Pulley Assembly		●		●
B587	Tension Lever Assembly		●		●
B31	AC Head Assembly			●	
B573,B574	Reel S, Reel T			●	
B37	Capstan Motor		●		●
B52	Cap Belt		●		●
B73	FE Head Assembly			●	
B133	Idler Assembly (HI)		●		●
B410	Pinch Arm Assembly		●		●
B414	M Brake (SP) Assembly (HI)		●		●
B416	M Brake (TU) Assembly (HI)		●		●
B525	LDG Belt		●		●

#### Notes:

- 1.Clean all parts for the tape transport (Upper Drum with Video Head / Pinch Roller / Audio Control Head / Full Erase Head) using 90% Isopropyl Alcohol.
- 2.After cleaning the parts, do all DECK ADJUSTMENTS.
- 3.For the reference numbers listed above, refer to Deck Exploded Views.

### Cleaning

#### Cleaning of Video Head

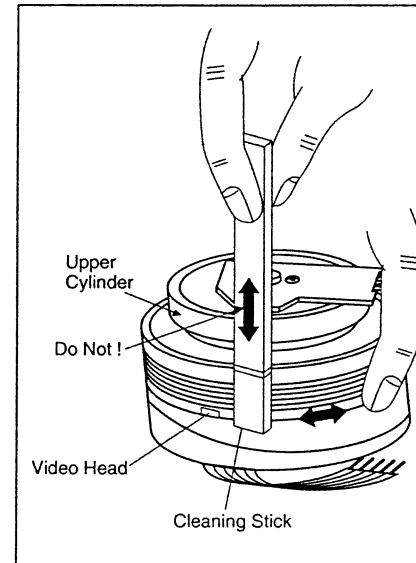
Clean the head with a head cleaning stick or chamois cloth.

##### Procedure

- 1.Remove the top cabinet.
- 2.Put on a glove (thin type) to avoid touching the upper and lower drum with your bare hand.
- 3.Put a few drops of 90% Isopropyl alcohol on the head cleaning stick or on the chamois cloth and, by slightly pressing it against the head tip, turn the upper drum to the right and to the left.

##### Notes:

- 1.The video head surface is made of very hard material, but since it is very thin, avoid cleaning it vertically.
- 2.Wait for the cleaned part to dry thoroughly before operating the unit.
- 3.Do not reuse a stained head cleaning stick or a stained chamois cloth.



#### Cleaning of Audio Control Head

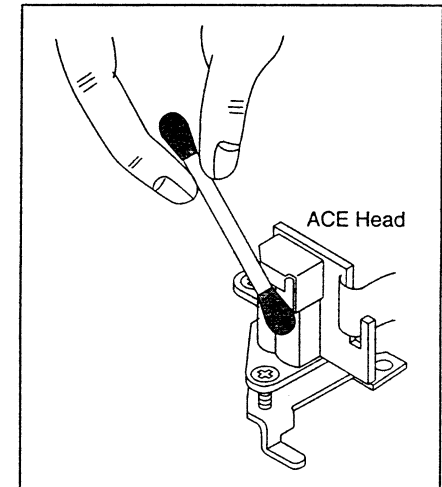
Clean the head with a cotton swab.

##### Procedure

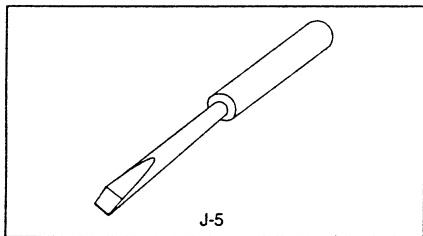
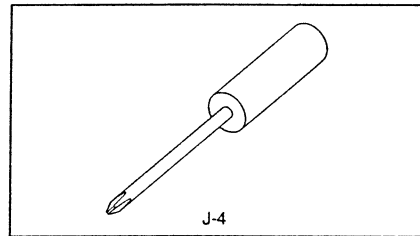
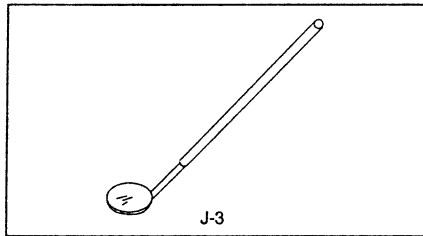
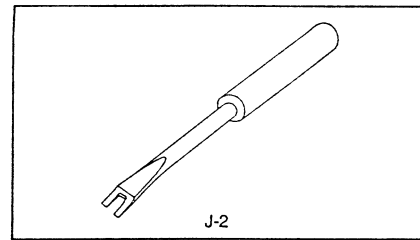
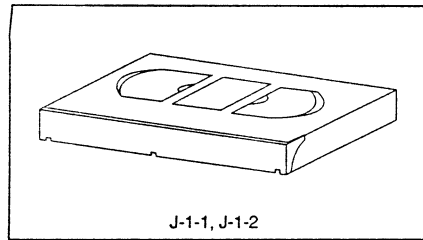
- 1.Remove the top cabinet.
- 2.Dip the cotton swab in 90% isopropyl alcohol and clean the audio control head. Be careful not to damage the upper drum and other tape running parts.

##### Notes:

- 1.Avoid cleaning the audio control head vertically.
- 2.Wait for the cleaned part to dry thoroughly before operating the unit or damage may occur.



## SERVICE FIXTURE AND TOOLS



Ref. No.	Name	Part No.	Adjustment
J-1-1	Alignment Tape	FL6A	Electrical Adjustments
J-1-2	Alignment Tape	FL6N8 (2 Head model) FL6NS8 (4 Head model)	Azimuth and X Value Adjustment of Audio Control Head / Adjustment of Envelope Waveform
J-2	Guide Roller Adj. Screwdriver	Available Locally	Guide Roller
J-3	Mirror	Available Locally	Tape Transportation Check
J-4	Azimuth Adj. Screwdriver +	Available Locally	A/C Head Height
J-5	X Value Adj. Screwdriver -	Available Locally	X Value

2-2-1

U25PCFIX

## MECHANICAL ALIGNMENT PROCEDURES

Explanation of alignment for the tape to correctly run starts on the next page. Refer to the information below on this page if a tape gets stuck, for example, in the mechanism due to some electrical trouble of the unit.

### Service Information

#### A. Method for Manual Tape Loading/Unloading

To load a cassette tape manually:

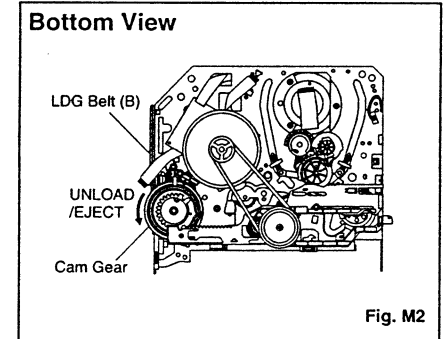
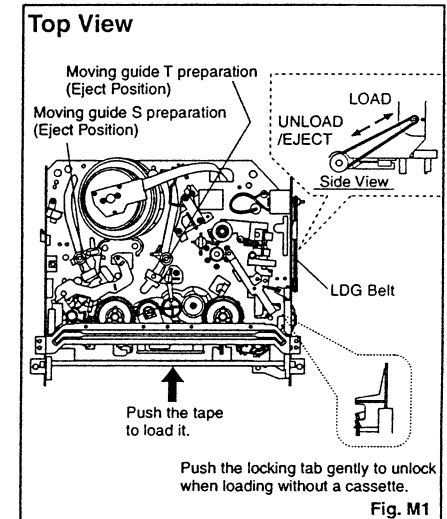
1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Insert a cassette tape. Though the tape will not be automatically loaded, make sure that the cassette tape is all the way in at the inlet of the Cassette Holder. To confirm this, lightly push the cassette tape further in and see if the tape comes back out, by a spring motion, just as much as you have pushed in.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 for a minute or two to complete this task.

To unload a cassette tape manually:

1. Disconnect the AC plug.
2. Remove the Top Case and Front Assembly.
3. Make sure that the Moving guide preparations are in the Eject Position.
4. Turn the LDG Belt in the appropriate direction shown in Fig. M1 until the Moving guide preparations come to the Eject Position. Stop turning when the preparations begin clicking or can not be moved further. However, the tape will be left wound around the cylinder.
5. Turn the LDG Belt in the appropriate direction continuously, and the cassette tape will be ejected. Allow a minute or two to complete this task.

#### B. Method to place the Cassette Holder in the tape-loaded position without a cassette tape

1. Disconnect the AC Plug.
2. Remove the Top Case and Front Assembly.
3. Turn the LDG Belt in the appropriate direction shown in Fig. M1. Release the locking tabs shown in Fig. M1 and continue turning the LDG Belt until the Cassette Holder comes to the tape-loaded position. Allow a minute or two to complete this task.



2-3-1

T6400MA

## 1. Tape Interchangeability Alignment

### Note:

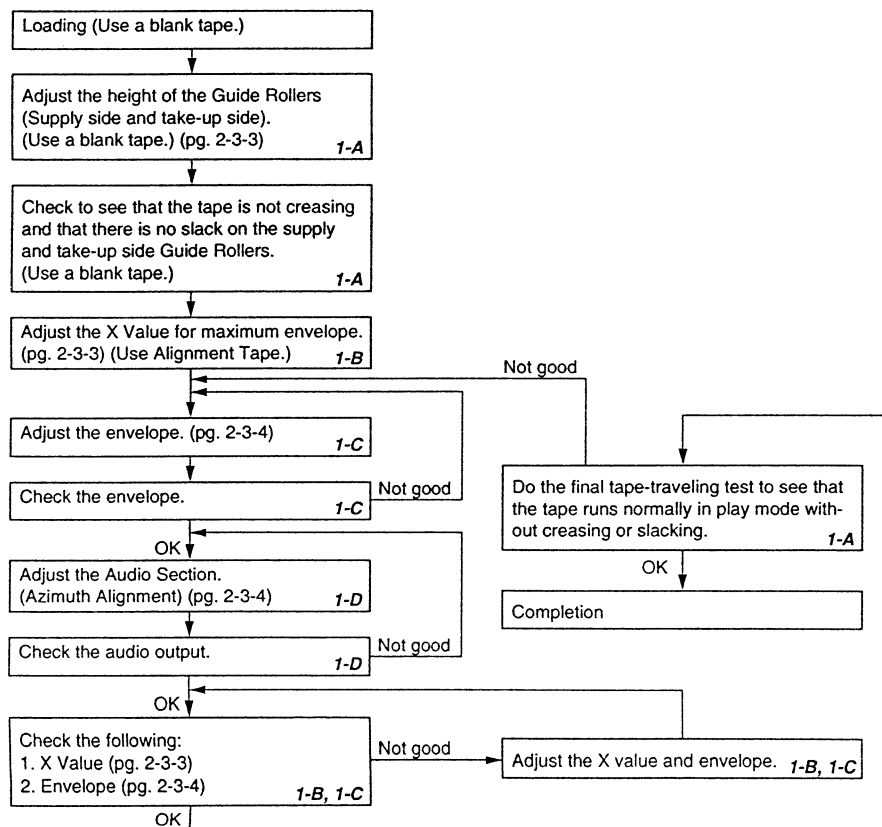
To do these alignment procedures, make sure that the Tracking Control Circuit is set to the center position every time a tape is loaded or unloaded. (Refer to page 2-3-4, procedure 1-C, step 2.)

### Equipment required:

Dual Trace Oscilloscope  
VHS Alignment Tape (FL6N8)  
Guide Roller Adj. Screwdriver  
X-Value Adj. Screwdriver

Note: Before starting this Mechanical Alignment, do all Electrical Adjustment procedures.

### Flowchart of Alignment for tape traveling



### 1-A. Preliminary/Final Checking and Alignment of Tape Path

#### Purpose:

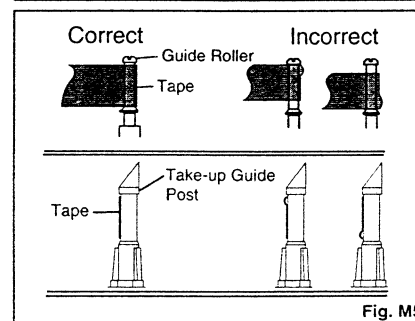
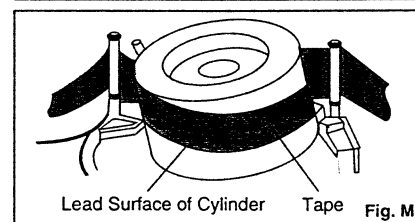
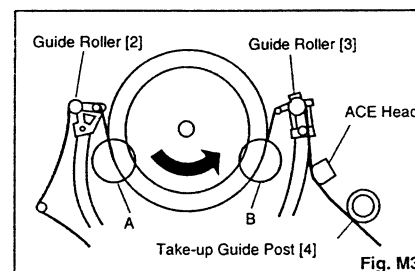
To make sure that the tape path is well stabilized.

#### Symptom of Misalignment:

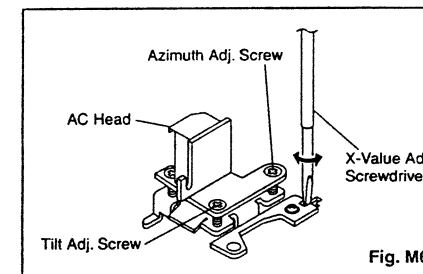
If the tape path is unstable, the tape will be damaged.

Note: Do not use an Alignment Tape for this procedure. If the unit is not correctly aligned, the tape may be damaged.

1. Playback a blank cassette tape and check to see that the tape runs without creasing at Guide Rollers [2] and [3], and at points A and B on the lead surface. (Refer to Fig. M3 and M4.)
2. If creasing is apparent, align the height of the guide rollers by turning the top of Guide Rollers [2] and [3] with a Guide Roller Adj. Screwdriver. (Refer to Fig. M3 and M5.)



3. Check to see that the tape runs without creasing at Take-up Guide Post [4] or without snaking between Guide Roller [3] and AC Head. (Fig. M3 and M5)
4. If creasing or snaking is apparent, adjust the Tilt Adj. Screw of the AC Head. (Fig. M6)



### 1-B. X Value Alignment

#### Purpose:

To align the Horizontal Position of the Audio/Control/ Erase Head.

#### Symptom of Misalignment:

If the Horizontal Position of the Audio/Control/Erase Head is not properly aligned, maximum envelope cannot be obtained at the Neutral position of the Tracking Control Circuit.

1. Connect the oscilloscope to TP008 (C-PB) and TP001 (CTL) on the Main CBA. Use TP002 (RF-SW) as a trigger.
2. Playback the Gray Scale of the Alignment Tape (FL6N8) and confirm that the PB FM signal is present.
3. Set the Tracking Control Circuit to the center position by pressing CH UP button then "PLAY" button on the unit. (Refer to note on bottom of page 2-3-4.)
4. Use the X-Value Adj. Screwdriver so that the PB FM signal at TP008 (C-PB) is maximum. (Fig. M6)
5. Press CH UP button on the unit until the CTL waveform has shifted by approx. +2msec. Make sure that the envelope is simply attenuated (shrinks in height) during this process so that you will know the envelope has been at its peak.

- Press CH DOWN button on the unit until the CTL waveform has shifted from its original position (not the position achieved in step 5, but the position of CTL waveform in step 4) by approximately -2msec. Make sure that the envelope is simply attenuated (shrinks in height) once CTL waveform passes its original position and is further brought in the minus direction.

- Set the Tracking Control Circuit to the center position by pressing CH UP button and then "PLAY" button.

### 1-C. Checking/Adjustment of Envelope Waveform

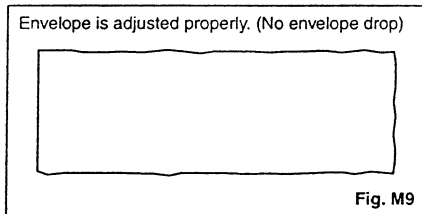
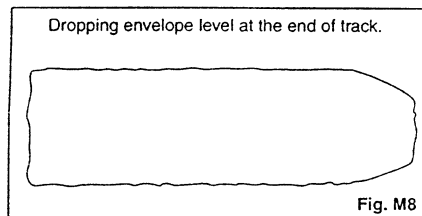
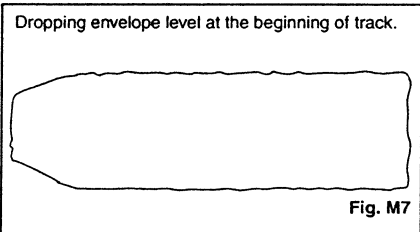
#### Purpose:

To achieve a satisfactory picture and precise tracking.

#### Symptom of Misalignment:

If the envelope output is poor, noise will appear in the picture. The tracking will then lose precision and the playback picture will be distorted by any slight variation of the Tracking Control Circuit.

- Connect the oscilloscope to TP008 (C-PB) on the Main CBA. Use TP002 (RF-SW) as a trigger.
- Playback the Gray Scale on the Alignment Tape (FL6N8). Set the Tracking Control Circuit to the center position by pressing CH UP button and then "PLAY" button on the unit. Adjust the height of Guide Rollers [2] and [3] (Fig. M3, Page 2-3-3) watching the oscilloscope display so that the envelope becomes as flat as possible. To do this adjustment, turn the top of the Guide Roller with the Guide Roller Adj. Screwdriver.
- If the envelope is as shown in Fig. M7, adjust the height of Guide Roller [2] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- If the envelope is as shown in Fig. M8, adjust the height of Guide Roller [3] (Refer to Fig. M3) so that the waveform looks like the one shown in Fig. M9.
- When Guide Rollers [2] and [3] (Refer to Fig. M3) are aligned properly, there is no envelope drop either at the beginning or end of track as shown in Fig. M9.



Note: Upon completion of the adjustment of Guide Rollers [2] and [3] (Refer to Fig. M3), check the X Value by pushing the CH UP or DOWN buttons alternately, to check the symmetry of the envelope. Check the number of pushes to ensure center position. The number of pushes CH UP button to achieve 1/2 level of envelope should match the number of pushes CH DOWN button from center. If required, redo the "X Value Alignment."

### 1-D. Azimuth Alignment of Audio/Control/Erase Head

#### Purpose:

To correct the Azimuth alignment so that the Audio/Control/Erase Head meets tape tracks properly.

#### Symptom of Misalignment:

If the position of the Audio/Control/Erase Head is not properly aligned, the Audio S/N Ratio or Frequency Response will be poor.

- Connect the oscilloscope to the audio output jack on the rear side of the deck.
- Playback the alignment tape (FL6N8) and confirm that the audio signal output level is 6kHz.
- Adjust Azimuth Adj. Screw so that the output level on the AC Voltmeter or the waveform on the oscilloscope is at maximum. (Fig. M6)

## DISASSEMBLY/ASSEMBLY PROCEDURES OF DECK MECHANISM

Before following the procedures described below, be sure to remove the deck assembly from the cabinet. (Refer to CABINET DISASSEMBLY INSTRUCTIONS on page 1-5-1.)

All the following procedures, including those for adjustment and replacement of parts, should be done in Eject mode; see the positions of [44] and [45] in Fig. DM1 on page 2-4-3. When reassembling, follow the steps in reverse order.

STEP /LOC. No.	START-ING No.	PART	Fig. No.	REMOVAL		INSTALLATION
				REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER		
[1]	[1]	Guide Holder A	T DM3	2(S-1)		
[2]	[1]	Cassette Holder Assembly	T DM4			
[3]	[2]	Slider (SP)	T DM5	*(L-1)		
[4]	[2]	Slider (TU)	T DM5	*(L-2)		
[5]	[4]	Lock Lever	T DM5	*(L-3),*(P-1)		
[6]	[2]	Cassette Plate	T DM5			
[7]	[7]	Cylinder Assembly	T DM1,DM6	Desolder, 3(S-2)		
[8]	[8]	Loading Motor Assembly	T DM1,DM7	Desolder, LDG Belt, 2(S-3)		
[9]	[9]	AC Head Assembly	T DM1,DM7	(S-4)		
[10]	[2]	Tape Guide Arm Assembly	T DM1,DM8	*(P-2)		
[11]	[10]	C Door Opener	T DM1,DM8	*(L-4)		
[12]	[11]	Pinch Arm (B)	T DM1,DM8	*(P-3)		
[13]	[12]	Pinch Arm Assembly	T DM1,DM8			
[14]	[14]	FE Head Assembly	T DM1,DM9	(S-5)		
[15]	[15]	Prism	T DM1,DM9	(S-6)		
[16]	[2]	Slider Shaft	T DM10	*(L-5)		
[17]	[16]	C Drive Lever (SP)	T DM10			
[18]	[16]	C Drive Lever (TU)	T DM10	(S-7),*(P-4)		
[19]	[19]	Capstan Motor	B DM2,DM11	3(S-8), Cap Belt		
[20]	[20]	Clutch Assembly (HI)	B DM2,DM12	(C-1)		
[21]	[20]	Center Gear	B DM12			
[22]	[22]	F Brake Assembly (HI)	B DM2,DM12	*(L-6)		
[23]	[22]	Worm Holder	B DM2,DM13	(S-9),*(L-7),*(L-8)		
[24]	[22]	Pulley Assembly (HI)	B DM2,DM13			
[25]	[25]	Mode Gear	B DM2,DM13	(C-2)		
[26]	[20],[25]	Mode Lever (HI)	B DM2,DM13	(C-3)		
[27]	[22],[23],[26]	Cam Gear (A) (HI)	B DM2,DM13	(C-4)		(+)Refer to Alignment Sec.Pg.2-4-8
[28]	[26]	TR Gear C	B DM2,DM13	(C-5)		
[29]	[28]	TR Gear Spring	B DM13			
[30]	[29]	TR Gear A/B	B DM13			
[31]	[31]	FF Arm (HI)	B DM1,DM13			
[32]	[26]	Idler Assembly (HI)	B DM1,DM14	*(L-9)		
[33]	[26]	BT Arm	B DM2,DM14	*(P-5)		

STEP /LOC. No.	START- ING No.	PART	Fig. No.	REMOVAL	INSTALLATION
				REMOVE/*UNHOOK/ UNLOCK/RELEASE/ UNPLUG/DESOLDER	ADJUSTMENT CONDITION
[34]	[26]	Loading Arm (SP) Assembly	B DM2,DM14		(+)Refer to Alignment Sec.Pg.2-4-8
[35]	[34]	Loading Arm (TU) Assembly	B DM2,DM14		(+)Refer to Alignment Sec.Pg.2-4-8
[36]	[16],[26]	M Brake (TU) Assembly (HI)	T DM1,DM15		
[37]	[2],[26]	M Brake (SP) Assembly (HI)	T DM1,DM15	*(P-6)	
[38]	[37]	Tension Lever Assembly	T DM1,DM15		
[39]	[38]	T Lever Holder	T DM15	*(L-10)	
[40]	[40]	M Gear (HI)	T DM1,DM15	(C-6)	
[41]	[15],[40]	Sensor Gear (HI)	T DM1,DM15	(C-7)	
[42]	[36],[40]	Reel T	T DM1,DM15		
[43]	[38]	Reel S	T DM1,DM15		
[44]	[34],[38]	Moving Guide S Preparation	T DM1,DM16		
[45]	[35]	Moving Guide T Preparation	T DM1,DM16		
[46]	[19]	TG Post Assembly	T DM1,DM16	*(L-11)	
[47]	[27]	Rack Assembly	R DM17		(+)Refer to Alignment Sec.Pg.2-4-8
[48]	[47]	F Door Opener	R DM17	*(P-9)	
[49]	[49]	Cleaner Assembly	T DM1,DM6		
[50]	[49]	CL Post	T DM6	*(L-12)	

(1) (2) (3) (4) (5) (6) (7)

(1): Follow steps in sequence. When reassembling, follow the steps in reverse order.

These numbers are also used as identification (location) No. of parts in the figures.

(2): Indicates the part to start disassembling with in order to disassemble the part in column (1).

(3): Name of the part

(4): Location of the part: T=Top B=Bottom R=Right L=Left

(5): Figure Number

(6): Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.

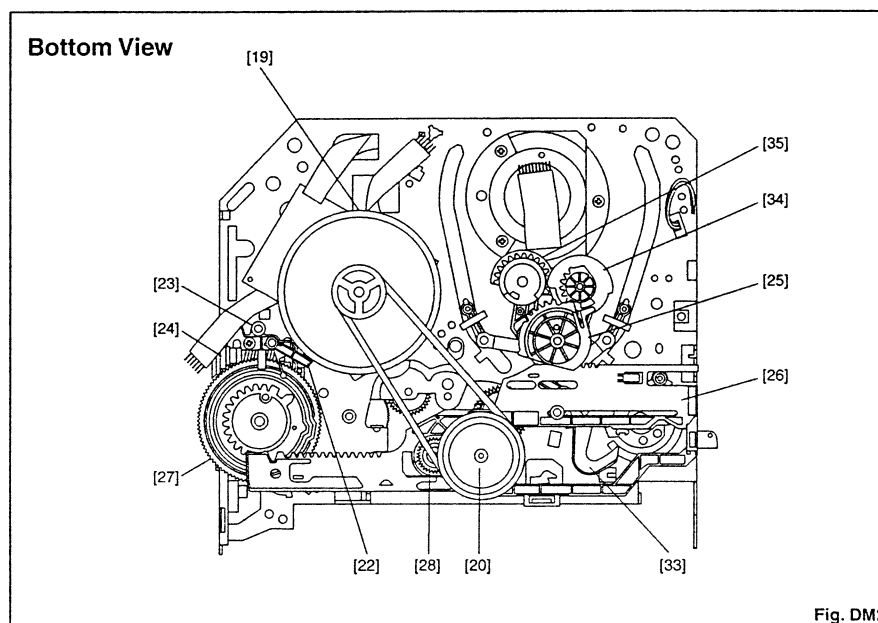
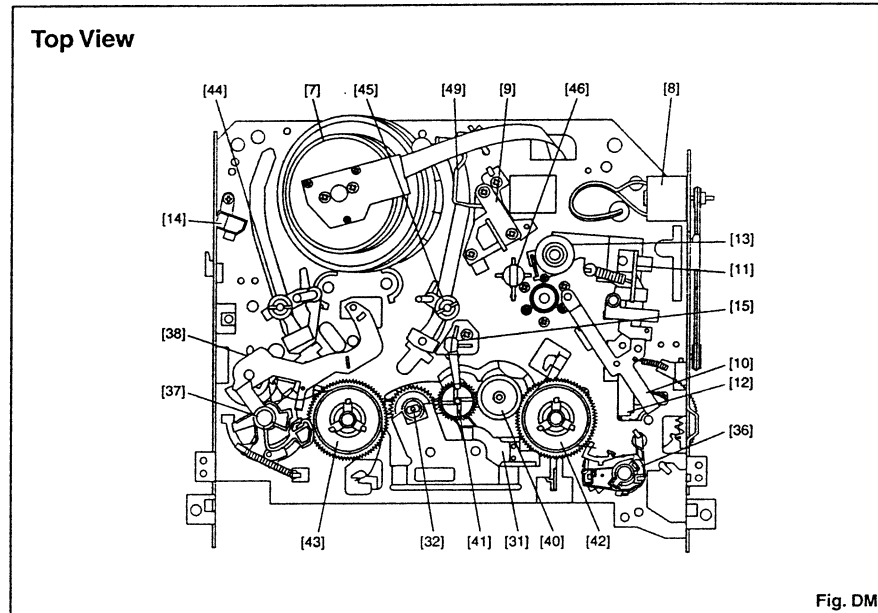
P=Spring, W=Washer, C=Cut Washer, S=Screw, \*=Unhook, Unlock, Release, Unplug, or Desolder

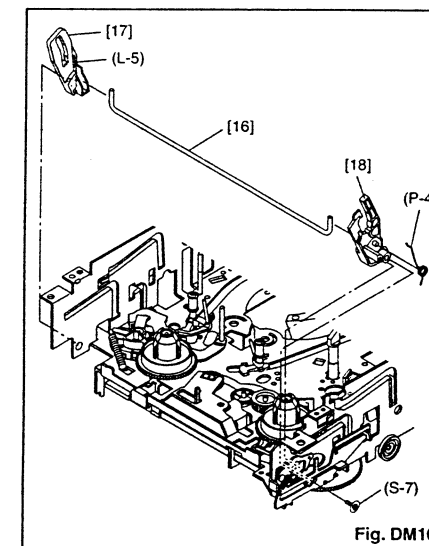
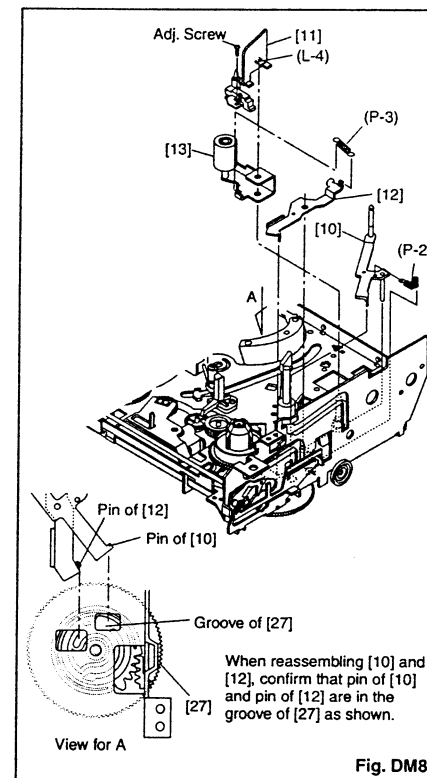
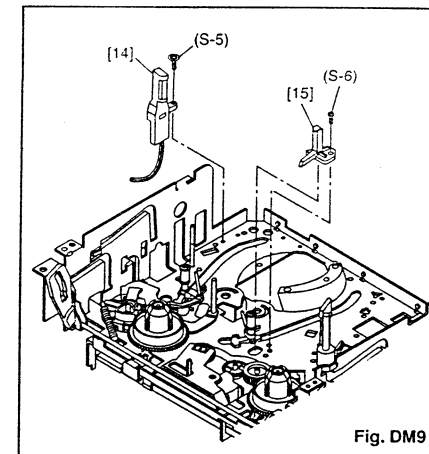
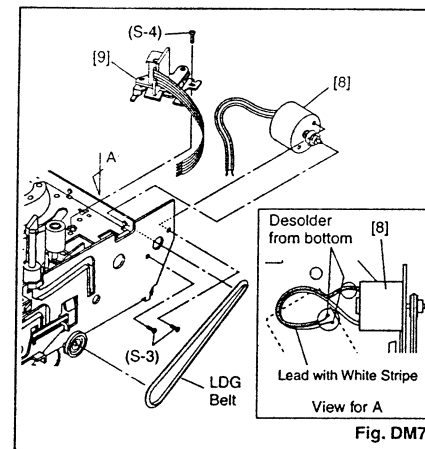
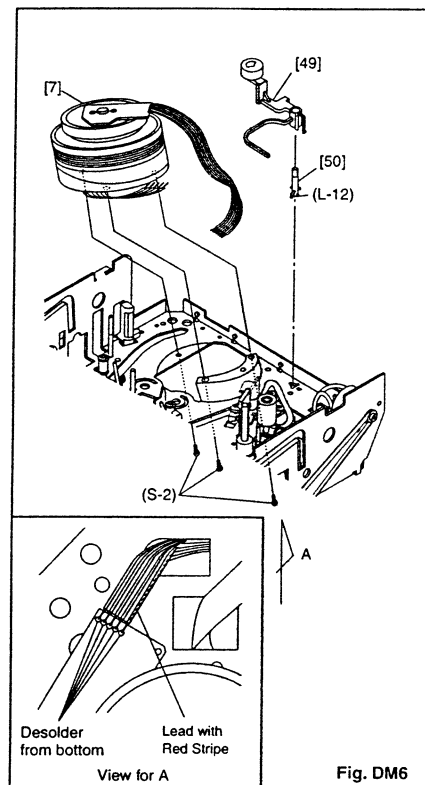
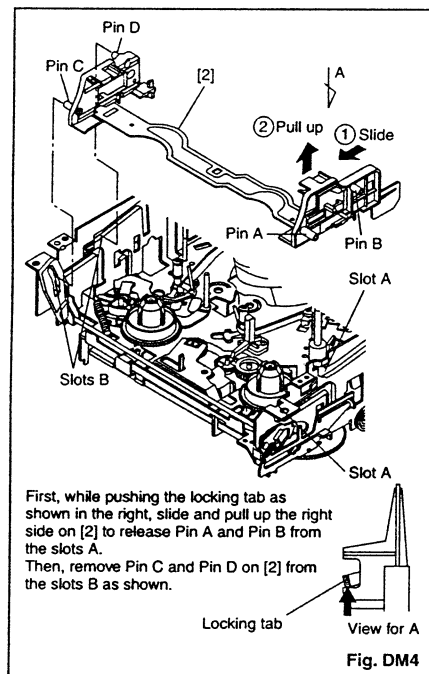
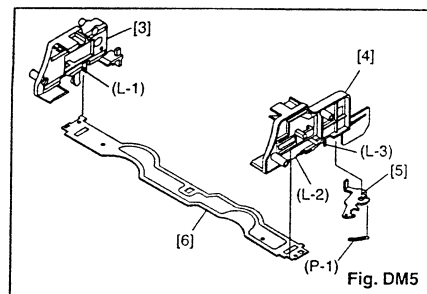
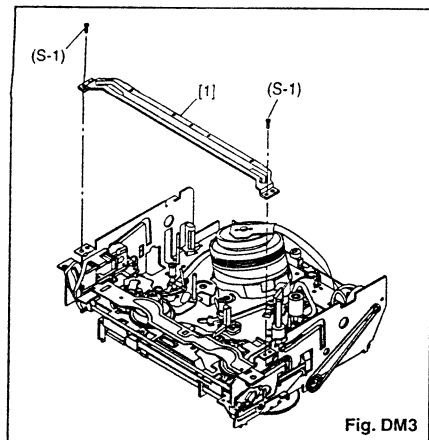
e.g., 2(L-2) = two Locking Tabs (L-2).

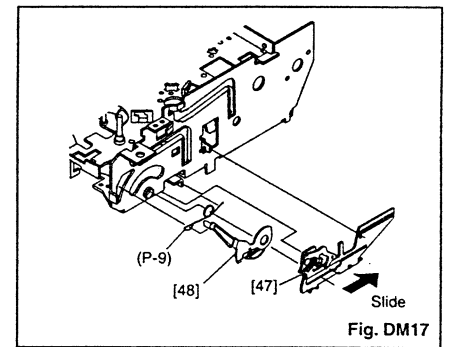
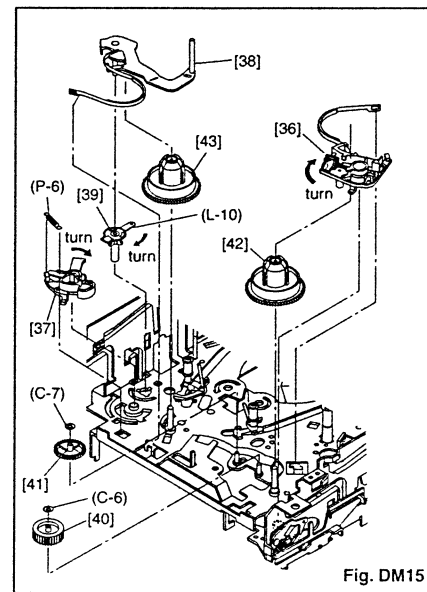
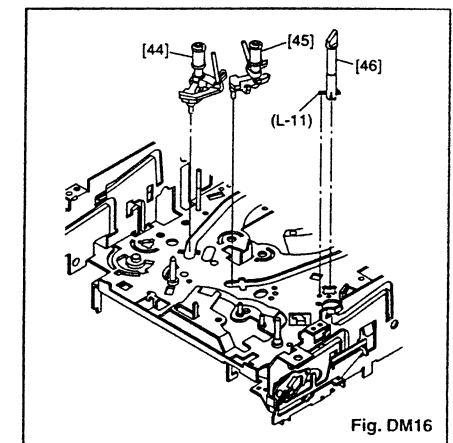
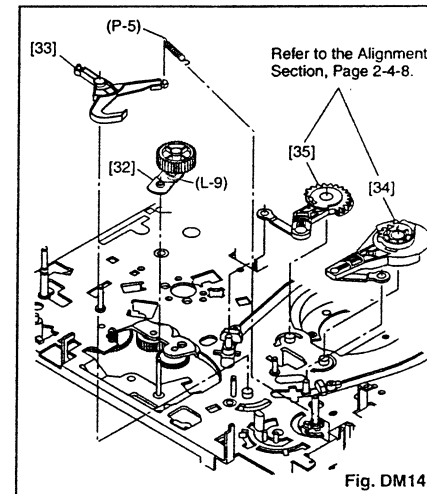
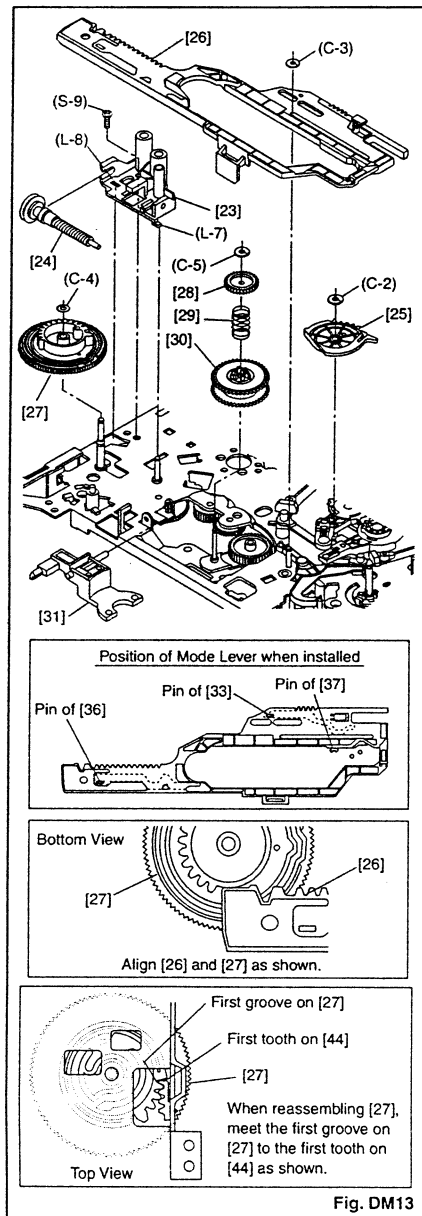
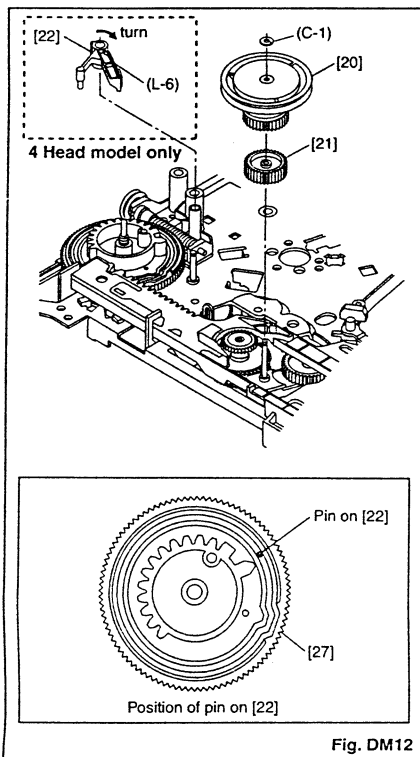
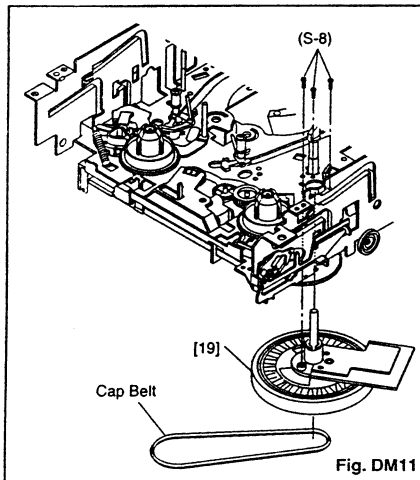
(7): Adjustment Information for Installation

(+):Refer to Deck Exploded Views for lubrication.

\* [ 22 ] F Brake Assembly (HI) is not used in 2 head model.







ALIGNMENT PROCEDURES OF MECHANISM

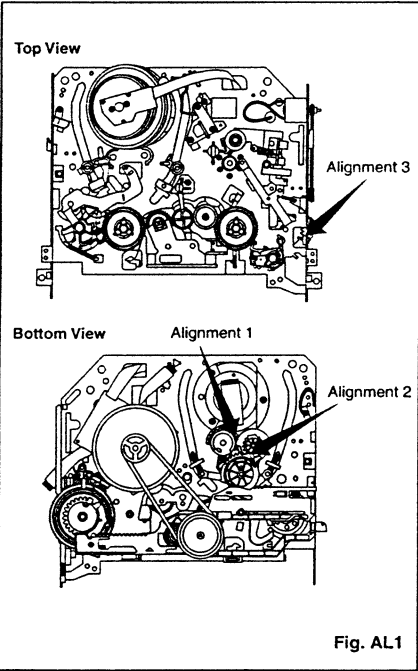
The following procedures describe how to align the individual gears and levers that make up the tape loading/unloading mechanism. Since information about the state of the mechanism is provided to the System Control Circuit only through the Mode Switch, it is essential that the correct relationship between individual gears and levers be maintained.

All alignments are to be performed with the mechanism in Eject mode, in the sequence given. Each procedure assumes that all previous procedures have been completed.

**IMPORTANT:**

If any one of these alignments is not performed properly, even if off by only one tooth, the unit will unload or stop and it may result in damage to the mechanical or electrical parts.

Alignment points in Eject Position



**Alignment 1**

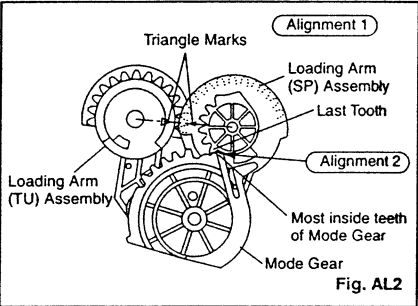
**Loading Arm (SP) and (TU) Assembly**

Install Loading Arm (SP) and (TU) Assembly so that their triangle marks point to each other as shown in Fig. AL2.

**Alignment 2**

**Mode Gear**

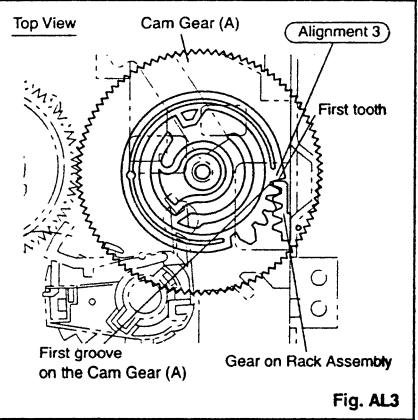
Keeping the two triangles pointing at each other, install the Loading Arm (TU) Assembly so that the last tooth of the gear meets the most inside teeth of the Mode Gear. See Fig. AL2.



**Alignment 3**

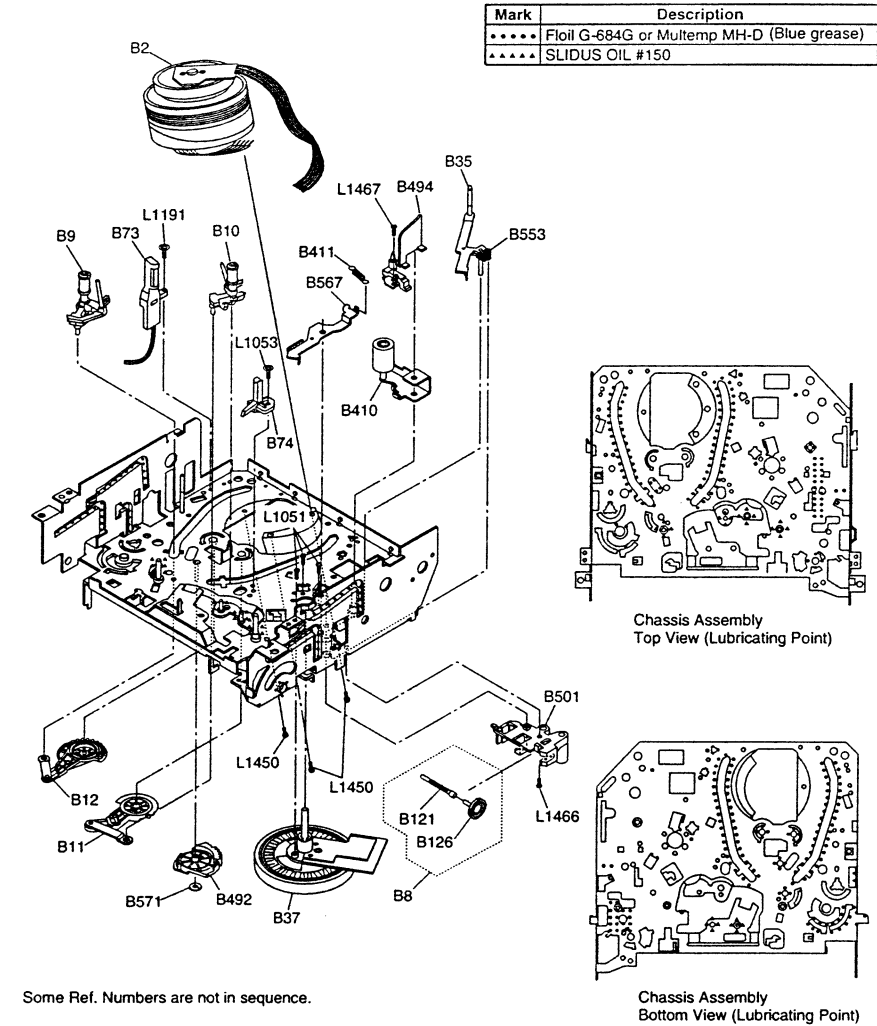
**Cam Gear (A) (HI), Rack Assembly**

Install the Rack Assembly so that the first tooth on the gear of the Rack Assembly meets the first groove on the Cam Gear (A) (HI) as shown in Fig. AL3.



DECK EXPLODED VIEWS

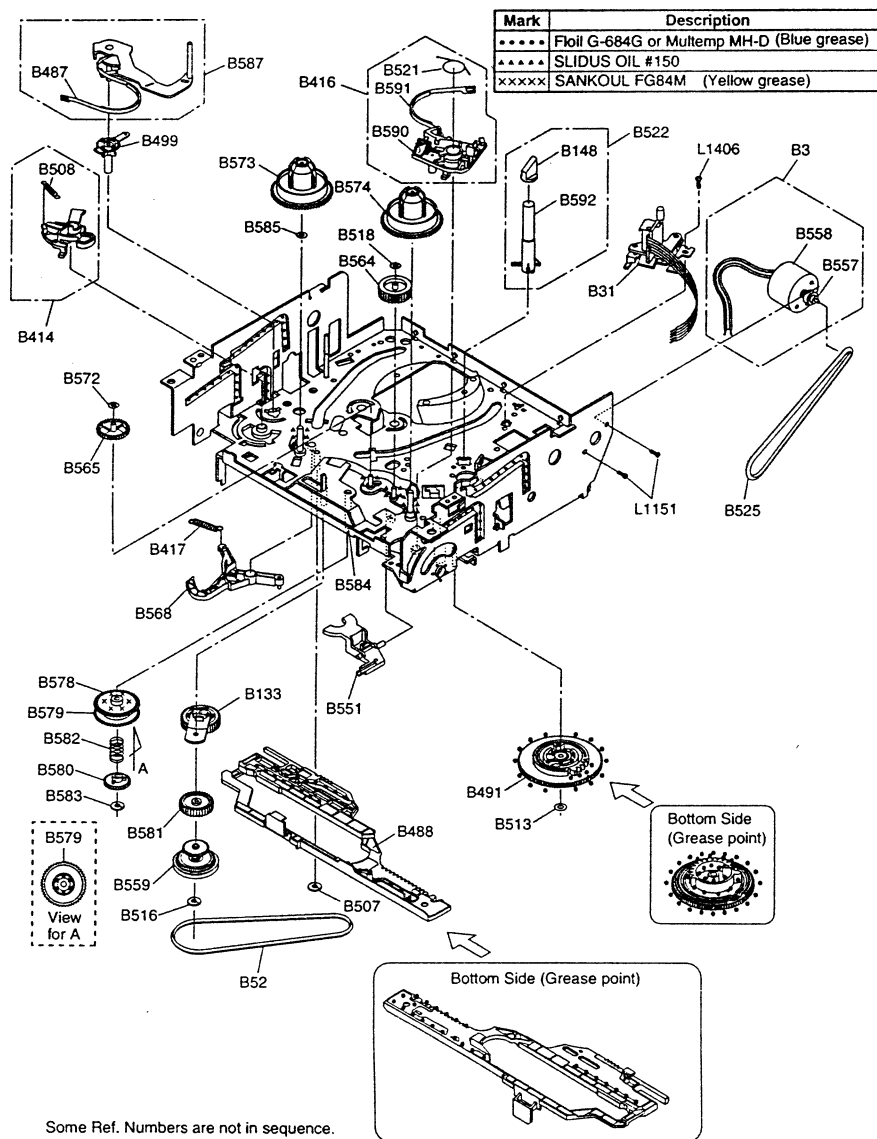
Deck Mechanism View 1



DECK PARTS LIST		
Pos.	▲ 12 NC	Description
B2	9965 000 17189	CYLINDER ASS. MK12 PAL 2HD 2SP
B3	9965 000 17217	LOADING MOTOR
B3	9965 000 16631	PULLEY ASS.(HI) MK12
B9	9965 000 16632	MOVING GUIDE S PREP. MK12
B10	9965 000 16633	MOVING GUIDE T PREP. MK12
B11	9965 000 16634	LOADING ARM(TU) ASS. MK12
B12	9965 000 16635	LOADING ARM(SP) ASS. MK12
B31	9965 000 18127	AC HEAD ASS. MK12(TVCR)
B35	9965 000 16637	TAPE GUIDE ARM ASS. MK12
B37	9965 000 16638	CAPSTAN MOTOR
B52	9965 000 08593	CAP BELT MK10
B73	9965 000 12210	FE HEAD ASS. MK11
B74	9965 000 08555	PRISM MK10
B121	9965 000 16640	WORM MK12
B126	9965 000 18128	PULLEY MK12
B133	9965 000 16642	IDLER ASS.(HI) MK12
B148	4822 462 11189	TG CAP MK6
B300	9965 000 16643	C DRIVE LEVER(TU) MK12
B303	9965 000 18129	F DOOR OPENER MK12
B313	9965 000 16645	C DRIVE SPRING MK12
B347	9965 000 08445	GUIDE HOLDER A MK10
B354	9965 000 18130	SLIDER(TU) MK12
B355	9965 000 16647	SLIDER(SP) MK12
B359	9965 000 08449	CLEANER LEVER MK10
B360	9965 000 06561	CLEANER ROLLER MK9
B361	9965 000 08450	CL POST MK10
B410	9965 000 16648	PINCH ARM(A) ASS.(4) MK12
B411	9965 000 16649	PINCH SPRING MK12
B414	9965 000 17218	M BRAKE(SP) ASS.(HI) MK12
B416	9965 000 16651	M BRAKE(TU) ASS.(HI) MK12
B417	9965 000 17197	TENSION SPG(3002654) MK12
B425	9965 000 08457	LOCK LEVER SPRING MK10
B482	9965 000 16653	CASSETTE PLATE MK12
B483	9965 000 16654	LOCK LEVER MK12
B487	9965 000 16655	BAND BRAKE(SP) MK12
B488	9965 000 18145	MODE LEVER(HI) MK12
B491	9965 000 16657	CAM GEAR(A)(HI) MK12
B492	9965 000 16658	MODE GEAR MK12
B494	9965 000 16659	C DOOR OPENER MK12
B499	9965 000 16660	T LEVER HOLDER MK12
B501	9965 000 16661	WORM HOLDER MK12
B507	9965 000 05342	REEL WASHER MK9 5"2.1"0.5
B508	9965 000 17219	S BRAKE SPRING(HI) MK12
B513	4822 532 13158	P.S.W F 6"2.55"0.5
B514	9965 000 08641	SCREW RACK MK10
B516	9965 000 05342	REEL WASHER MK9 5"2.1"0.5
B518	4822 532 13159	P.S.W CUT 1.6X4.0X0.5T
B521	9965 000 17220	REV BRAKE SPG(HI) MK12
B522	9965 000 08483	TG POST ASS. MK10
B525	9965 000 12230	LDG BELT MK11
B529	9965 000 08504	CLEANER ASS. MK10
B551	9965 000 17221	FF ARM(HI) MK12

DECK PARTS LIST		
Pos.	▲ 12 NC	Description
B553	9965 000 12233	REV SPRING MK11
B555	9965 000 16663	RACK ASS. MK12
B557	9965 000 08519	MOTOR PULLEY U5
B558	9965 000 18131	LOADING MOTOR
B559	9965 000 16664	CLUTCH ASS.(HI) MK12
B561	9965 000 08523	F DOOR SPRING MK10
B562	9965 000 16665	C DRIVE LEVER(SP) MK12
B563	9965 000 16666	SLIDER SHAFT MK12
B564	9965 000 16667	M GEAR(HI) MK12
B565	9965 000 16668	SENSOR GEAR(HI) MK12
B567	9965 000 16669	PINCH ARM(B) MK12
B568	9965 000 16670	BT ARM MK12
B571	4822 532 13159	P.S.W CUT 1.6X4.0X0.5T
B572	4822 532 13159	P.S.W CUT 1.6X4.0X0.5T
B573	9965 000 12241	REEL S MK11
B574	9965 000 12376	REEL T MK10
B578	9965 000 12243	TR GEAR A MK10
B579	9965 000 16671	TR GEAR B MK12
B580	9965 000 16672	TR GEAR C MK12
B581	9965 000 16673	CENTER GEAR MK11
B582	9965 000 12247	TR GEAR SPRING MK10
B583	9965 000 17201	CAM WASHER MK12
B584	9965 000 12248	TR GEAR SHAFT MK10
B585	9965 000 13687	PSW(317505) MK11
B587	9965 000 16674	TENSION LEVER ASS. MK12
B590	9965 000 18132	BRAKE ARM(TU) MK12
B591	9965 000 17210	BAND BRAKE(TU) MK12
B592	9965 000 16678	TG POST MK10
L1051	9965 000 05359	SCREW, B-TIGHT M2.6X6 PAN HEAD+
L1053	9965 000 05375	SCREW, S-TIGHT M2.6X8 WASHER HEAD+
L1151	9965 000 08642	SCREW, SEMS M2.6X4 PAN HEAD+
L1191	9965 000 05375	SCREW, S-TIGHT M2.6X8 WASHER HEAD+
L1321	4822 502 14009	SCREW, S-TIGHT M3X6 BIND HEAD+
L1406	9965 000 08643	AC HEAD SCREW MK9
L1450	4822 502 14671	SCREW, SEMS M2.6X5 PAN HEAD+
L1466	9965 000 05364	SCREW, S-TIGHT M2.6X6 BIND HEAD+
L1467	9965 000 12251	SCREW, S-TIGHT M2.6X5 WASHER HEAD+

### Deck Mechanism View 2



### Deck Mechanism View 3

